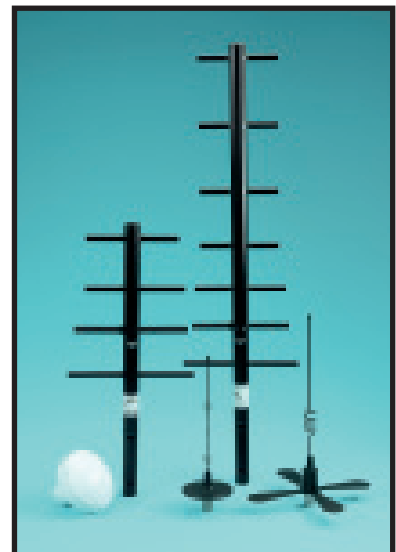


Antenna SourceBook Volume 11



WELCOME

Pulse Electronics/Larsen Antennas is pleased to bring you the new, improved Antenna SourceBook (ASB), Volume 11. The goal of the ASB is to provide you with a “go to” source for all your antenna needs. Here you will find our most popular LTE/4G, Broadband, Portable Radio, Mobile, GPS, WiFi, WWAN, WiMax and Base Station antennas.

Headquartered in San Diego, California, Pulse Electronics is a worldwide leader in electronic component and subassembly design and manufacturing. Pulse is also a leading provider of antennas and antenna modules for mobile handsets and wireless devices. For more information on Pulse, please visit www.pulseelectronics.com.

Pulse provides a powerful synergy and opportunities for customers, suppliers, employees, and channel partners. Customers can now source a diverse range of antennas from the combined antenna product lines. The Larsen brand also benefits from Pulse’s substantial engineering resources, including test equipment and anechoic chambers.

As always, your input and suggestions for improvement are important to us. Should you have questions or comments, please feel free to contact us.

PHONE: 1-800-ANTENNA (268-3662)
1-360-944-7551
FAX: 1-800-525-6749
1-360-944-7556
WEB: www.pulseelectronics.com/products/antennas
EMAIL: info@larsen.pulseeng.com

For a list of Larsen representatives and distributors, please visit our web site at www.pulseelectronics.com/products/antennas/larsen_antenna_products/ordering.

Your business is sincerely appreciated. We look forward to the opportunity to continue to serve your antenna requirements now and in the future.

CONTENTS

Portable Radio Antennas	
KuLDUCKIE	6
SPOTS!	8
Low Band 27-136 MHz	13
VHF 136-174 MHz, 220 MHz	14
UHF 406-512 MHz	17
Multi Band VHF/UHF.	20
Tunable 1/4 Wave 136-512 MHz	21
700/800/900/1850 MHz	22
GPS	27
LTE, 4G, Broadband	32
Base Station Antennas.	35
Cable Assemblies/Mounts.	37
Connectors	41
Parts, Accessories	45
Coaxial Cables	49

HOW TO ORDER

DISTRIBUTION

Pulse/Larsen has partnered with the industry's leading wireless products distributors throughout North America and around the world. Larsen antennas are as close as your phone or fax. For a list of Larsen distributors visit our web site at www.pulseelectronics.com/products/antennas/larsen_antenna_products/ordering.

ORDERING

At Pulse/Larsen we understand managing your business in today's rapidly changing wireless communications market can be complicated. We want to make the process of doing business with us as easy as possible.

Whether it's your first order or you've been doing business with us for a while, each and every customer is equally important to us. From our experienced customer service associates to the latest in communications technologies, Pulse/Larsen strives to exceed your expectations with every transaction.

To order Larsen products, contact one of our authorized distributors. For a list of Larsen distributors, visit our web site at www.pulseelectronics.com/products/antennas/larsen_antenna_products/ordering.

1-800-ANTENNA (268-3662)

When you need an antenna, what better way than to remember 1-800-ANTENNA (268-3662). Our knowledgeable Customer Support staff is available to assist you from 7:30 am – 4:30 pm Pacific Time.

In addition, our toll free FaxDirect is available for your convenience 24 hours every day. Simply fax your order to 1-800-525-6749.

For our international customers (outside North America):

Phone: 360-944-7551

Fax: 360-944-7556

PULSE NO-NONSENSE™ WARRANTY

Every effort is made to assure the integrity and long life of each Pulse product. In the unfortunate event a problem does occur, you will find us ready to make it right!

Duration of warranty is one year from date of purchase

Pulse will repair or replace without charge any Larsen antenna product which fails for any reason during the warranty period. Pulse is not responsible for any incidental or consequential damages due to failure of the antenna under this warranty or any implied warranty. This exclusion may not apply to all areas of the USA or Canada.

For service under warranty, contact the Larsen Customer Support Department at 1-800-ANTENNA (268-3662) for a Return Product Tracker number and complete instructions.



CHANGES / CONDITIONS: Continual research and development make it necessary for Pulse to reserve the right to make exceptions to or changes in policies, specifications and prices without notice.

PORTABLE RADIO ANTENNAS

The following chart summarizes performance, size and cost parameters for various antenna types.

ANTENNA PERFORMANCE CHART

Type	Bandwidth	Performance	Length	Connector	Frequency	Pricing
Helical Short	6%	Poor (**)	Short	All	VHF/UHF	\$\$
Helical	8%	Average (***)	Shorter	All	Low/Mid/VHF/UHF	\$\$
Helical Quarter Wave	12%	Good (***)	Longer	All except SMA	VHF	\$\$
Whip	12%	Good (***)	Mid	All	UHF	\$
End Fed Half Wave	10%	Better (****)	Longer	Coaxial	800	\$\$\$
Half Wave Dipole	10%	Best (*****)	Longer	Coaxial	800	\$\$\$\$
Wide Band	25%	Good (***)	Longer	Coaxial	All	\$\$\$\$\$
Dual Band	2x8%	Average (***)	Mid	Coaxial	VHF/UHF	\$\$

Due to the high variability of use, measurements are difficult to make on portable antennas. All Larsen portable antenna designs are tested for gain and VSWR using a standard fixture for portable antennas. Gain measurements are determined based on range or chamber measurements. Performance ratings are determined using a VSWR standard of less than 2.0:1.

PORTABLE RADIO ANTENNAS

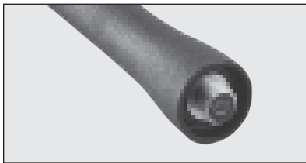


KULDUCKIE® FREQUENCY COLOR CODE

VHF FREQUENCY	COLOR	UHF FREQUENCY	COLOR
136 - 140 MHz	Blue	406 - 420 MHz	Black
142 - 149 MHz	Green	450 - 469 MHz	Black
150 - 160 MHz	Yellow	470 - 512 MHz	Black
162 - 174 MHz	Red	150 / 450 MHz	Blue

KULDUCKIE®

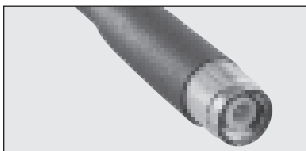
All factory tuned KuL DUCKIES® are ExacTuned to your specified frequency. To order, replace the FREQ, UHF or VHF designation with your desired center frequency.



1/4-32X3/16

Male stud type mount with skirt (MX type)
KD2/12

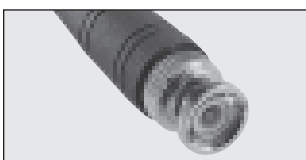
PART NUMBER	ELECTRICAL TYPE	FREQUENCY BAND	APPROX LENGTH
1/4-32x3/16			
KD2FREQHQ1	HQ Helical 1/4 λ	136 - 140 MHz	9 1/2"
KD2FREQHQ2	HQ Helical 1/4 λ	142 - 149 MHz	9 1/2"
KD2FREQHQ3	HQ Helical 1/4 λ	150 - 161 MHz	9 1/2"
KD2FREQHQ4	HQ Helical 1/4 λ	162 - 174 MHz	9 1/2"



TNC

TNC Male coaxial connector unskirted (TN type)
KD3/13

TNC MALE			
KD3FREQHQ1	HQ Helical 1/4 λ	136 - 140 MHz	9 1/2"
KD3FREQHQ2	HQ Helical 1/4 λ	142 - 149 MHz	9 1/2"
KD3FREQHQ3	HQ Helical 1/4 λ	150 - 161 MHz	9 1/2"
KD3FREQHQ4	HQ Helical 1/4 λ	162 - 174 MHz	9 1/2"
KD3FREQHQ5	HQ Helical 1/4 λ	220 - 222 MHz	9 1/2"
KD13(freq)	1/4 λ	406 - 960 MHz	6"
TNCQ	1/4 λ	136 - 512 MHz	Varies by freq



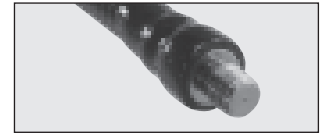
BNC

BNC Male coaxial connector unskirted
KD4/14

BNC MALE			
KD4UHF	Helical 1/4 λ	406 - 512 MHz	3"
KD4VHF1	Helical 1/4 λ	136 - 141 MHz	8"
KD4VHF2	Helical 1/4 λ	142 - 149 MHz	8"
KD4VHF3	Helical 1/4 λ	150 - 161 MHz	8"
KD4VHF4	Helical 1/4 λ	162 - 174 MHz	8"
KD4FREQHQ1	HQ Helical 1/4 λ	136 - 140 MHz	9 1/2"
KD4FREQHQ2	HQ Helical 1/4 λ	142 - 149 MHz	9 1/2"
KD4FREQHQ3	HQ Helical 1/4 λ	150 - 161 MHz	9 1/2"
KD4FREQHQ4	HQ Helical 1/4 λ	162 - 174 MHz	9 1/2"
KD4150T	Helical 1/4 λ	130 - 180 MHz	Varies by freq
KD14(freq)	1/4 λ	406 - 960 MHz	6"
KD14FREQHW1	HW UHF 1/2 λ	315 - 409 MHz	16 1/2"
KD14FREQHW2	HW UHF 1/2 λ	416 - 504 MHz	16 1/2"
BNCQ	1/4 λ	136 - 512 MHz	Varies by freq

PORTABLE RADIO ANTENNAS

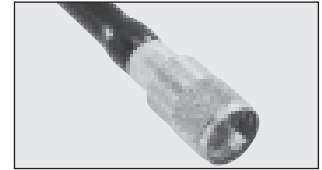
PART NUMBER	ELECTRICAL TYPE	FREQUENCY BAND	APPROX LENGTH
5/16-32X3/8			
KD7FREQHQ1	HQ Helical 1/4 λ	136 - 140 MHz	9 1/2"
KD7FREQHQ2	HQ Helical 1/4 λ	142 - 149 MHz	9 1/2"
KD7FREQHQ3	HQ Helical 1/4 λ	150 - 161 MHz	9 1/2"
KD7FREQHQ4	HQ Helical 1/4 λ	162 - 174 MHz	9 1/2"



5/16-32X3/8

Male stud type mount (KR type)
KD7

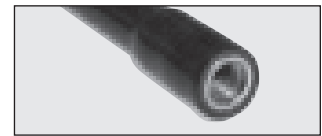
PL-259			
KD9FREQHQ1	HQ Helical 1/4 λ	136 - 140 MHz	9 1/2"
KD9FREQHQ2	HQ Helical 1/4 λ	142 - 149 MHz	9 1/2"
KD9FREQHQ3	HQ Helical 1/4 λ	150 - 161 MHz	9 1/2"
KD9FREQHQ4	HQ Helical 1/4 λ	162 - 174 MHz	9 1/2"
KD19(freq)	1/4 λ	406 - 512 MHz	6"
PQ	1/4 λ	144 - 512 MHz	Varies by freq



PL-259

Standard UHF Connector
Male
KD9/19

5/16-24 THDS Female			
KD22VHF1	Helical 1/4 λ	136 - 141 MHz	8"
KD22VHF2	Helical 1/4 λ	142 - 149 MHz	8"
KD22VHF3	Helical 1/4 λ	150 - 161 MHz	8"
KD22VHF4	Helical 1/4 λ	162 - 174 MHz	8"
KD22FREQHQ1	HQ Helical 1/4 λ	136 - 140 MHz	9 1/2"
KD22FREQHQ2	HQ Helical 1/4 λ	142 - 149 MHz	9 1/2"
KD22FREQHQ3	HQ Helical 1/4 λ	150 - 161 MHz	9 1/2"
KD22FREQHQ4	HQ Helical 1/4 λ	162 - 174 MHz	9 1/2"



516-24THDS Female

Female threaded
KD22

PORTABLE RADIO ANTENNAS

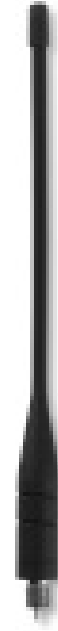
SPOTS!

SPOTS! FREQUENCY COLOR CODE (SEE COLOR SPOT ON ANTENNA TOP)

VHF	CENTER FREQUENCY	COLOR
144	(138 - 150 MHz)	Gray
156	(150 - 162 MHz)	Orange
160	(154 - 166 MHz)	Green
167	(160 - 174 MHz)	Red

UHF	CENTER FREQUENCY	COLOR
420	(403 - 437 MHz)	Blue
450	(432 - 468 MHz)	Yellow
470	(450 - 490 MHz)	Red
490	(470 - 510 MHz)	Green

800 / 900	CENTER FREQUENCY	COLOR
832	(795 - 870 MHz)	Blue
918	(872 - 964 MHz)	Red
1800	(1710 - 1850 MHz)	Black
1900	(1850 - 1990 MHz)	Black
2400	(2400 - 2500 MHz)	Black

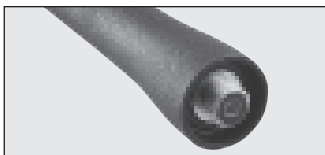


SPOTS! ANTENNA SELECTION GUIDE BY CONNECTOR TYPE

Determine connector type on the following pages and select the proper antenna based on frequency and type below. Field tunable antennas come with a cutting chart and cap to allow for tuning to exact frequency.

1/4-32X3/16 - MALE STUD CONNECTOR (MX TYPE)

CODE 10



1/4-32X3/16

Male stud type mount with skirt (MX type)

Popular Brands Supported

Motorola, Kenwood, Maxon, Midland, Wilson, G.E., Vertex

PART NUMBER	FREQUENCY BAND (MHZ)	ANTENNA TYPE	APPROX LENGTH
SPHL10156	150 - 162	Helical Standard 1/4 λ	8"
SPHS10156	152 - 160	Helical Short 1/4 λ	4"
SPHL10160	154 - 166	Helical Standard - 1/4 λ	8"
SPHL10160IC**	CC to 157	Helical Standard 1/4 λ	8"
SPHL10167	160 - 174	Helical Standard 1/4 λ	8"
SPHL10167IC**	CC to 167	Helical Standard 1/4 λ	8"
SPWH10420	395 - 445	Whip Standard 1/4 λ	6"
SPHS10420	403 - 437	Helical Short 1/4 λ	3"
SPWH10450	425 - 475	Whip Standard 1/4 λ	6"
SPHS10450	432 - 468	Helical Short 1/4 λ	3"
SPWH10470	450 - 490	Whip Standard 1/4 λ	6"
SPHS10470	452 - 488	Helical Short 1/4 λ	3"
SPHL10FT	Field Tunable 136 - 221	Helical Standard 1/4 λ	8"
SPWH10FT	Field Tunable 400 - 512	Whip Standard 1/4 λ	6"

** This antenna is designed with a longer "skirt" for use with newer ICOM radios.

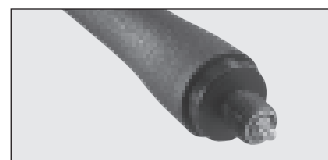
PORTABLE RADIO ANTENNAS

SPOTS!

M7 X 1.00 METRIC CONNECTOR (MD TYPE)

CODE 14

PART NUMBER	FREQUENCY BAND (MHZ)	ANTENNA TYPE	APPROX LENGTH
SPEN14832	806 - 866	Whip - 1/2 λ End Fed	7"
SPWH14832	782 - 882	Whip - Standard - 1/4 λ	3"
SPHS14832	800 - 865	Helical - Short - 1/4 λ	2.75 "
SPEN14918	890 - 960	Half λ End Fed	6"
SPHL14FT	Field Tunable 136 - 221	Helical - Standard - 1/4 λ	7"



M7.0X1.0

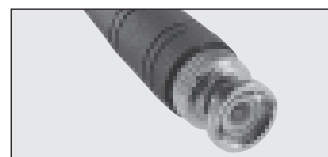
Male stud type connector unskirted (MD type)

Popular Brands Supported
G.E., Ericsson

BNC CONNECTOR (BN TYPE)

CODE 15

PART NUMBER	FREQUENCY BAND (MHZ)	ANTENNA TYPE	APPROX LENGTH
SPHS15450	432 - 468	Helical - Short - 1/4 λ	3"
SPHL15FT	Field Tunable 136 - 221	Helical - Standard - 1/4 λ	8"
SPWH15FT	Field Tunable 400 - 512	Whip - Standard - 1/4 λ	6"



BNC

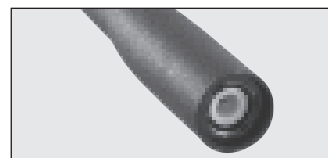
BNC Male coaxial connector unskirted

Popular Brands Supported
G.E., Kenwood, Motorola, Maxon, Johnson

BNC CONNECTOR COVERED TYPE (BNX TYPE)

CODE 16

PART NUMBER	FREQUENCY BAND (MHZ)	ANTENNA TYPE	APPROX LENGTH
SPHL16FT	Field Tunable 136 - 221	Helical - Standard - 1/4 λ	8"
SPWH16FT	Field Tunable 400 - 512	Whip - Standard - 1/4 λ	6"



BNC-S

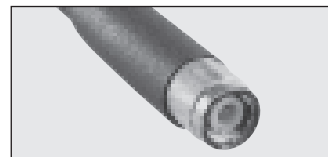
BNC Male coaxial connector fully skirted (BNX type)

Popular Brands Supported
Ericsson

TNC CONNECTOR - STANDARD (TN TYPE)

CODE 17

PART NUMBER	FREQUENCY BAND (MHZ)	ANTENNA TYPE	APPROX LENGTH
SPDA17832	824 - 894	Center Fed Dipole	8"
SPDA17850/1900	824 -894 / 1850 - 1990	Center Fed Dipole	7.5"
SPDA17918	890 - 960	Center Fed Dipole	8"
SPDA171800	1710 - 1850	Center Fed Dipole	6.5"
SPDA171900	1850 - 1990	Center Fed Dipole	6.5"
SPDA172400	2400 - 2500	Center Fed Dipole	6"
SPDA17RP2400	2400 - 2500	Center Fed Dipole	6"
SPDA17RP918	890 - 960	Center Fed Dipole	8"
SPHL17FT	Field Tunable 136 - 221	Helical - Standard - 1/4 λ	8"
SPWH17FT	Field Tunable 400 - 512	Whip - Standard - 1/4 λ	6"



TNC

TNC Male coaxial connector unskirted (TN type)

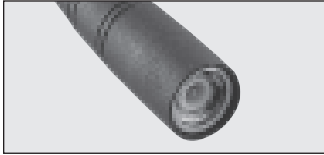
Popular Brands Supported
Icom, Standard

1 800 ANTENNA (268-3662)

NOTE: Antennas are not to scale

PORTABLE RADIO ANTENNAS

SPOTS!



TNC-S

TNC Coaxial connector fully skirted (TNX type)

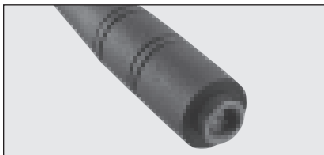
Popular Brands Supported

Vertex

TNC CONNECTOR - COVERED (TNX TYPE)

CODE 18

PART NUMBER	FREQUENCY BAND (MHZ)	ANTENNA TYPE	APPROX LENGTH
SPHL18FT	Field Tunable 136 - 221	Helical - Standard - 1/4 λ	8"
SPWH18FT	Field Tunable 400 - 512	Whip - Standard - 1/4 λ	6"



SMA MALE T1

SMA Male extended base (SMS Type)

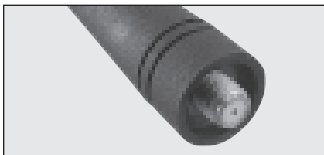
Popular Brands Supported

Standard

SMA MALE STANDARD - EXTENDED BASE - T1 (SMS TYPE)

CODE 20

PART NUMBER	FREQUENCY BAND (MHZ)	ANTENNA TYPE	APPROX LENGTH
SPWH20832	782 - 882	Whip - Standard - 1/4 λ	3"
SPHS20832	800 - 864	Helical - Short - 1/4 λ	2.75"
SPWH20918	863 - 973	Whip - Standard - 1/4 λ	3"
SPHS20918	872 - 954	Helical - Short - 1/4 λ	2.75"
SPHL20FT	Field Tunable 136 - 221	Helical - Standard - 1/4 λ	8"
SPWH20FT	Field Tunable 400 - 512	Whip - Standard - 1/4 λ	6"



SMA F T1

SMA Female flush insulator & partial skirt (SF Type)

Popular Brands Supported

Motorola

SMA FEMALE - NON STANDARD MOTOROLA TYPE (SF TYPE)

CODE 21

PART NUMBER	FREQUENCY BAND (MHZ)	ANTENNA TYPE	APPROX LENGTH
SPWB21150	136 - 174	Helical - Standard - 1/4 λ	6.75"
SPHL21156	150 - 162	Helical - Standard - 1/4 λ	8"
SPHS21156	152 - 160	Helical - Short - 1/4 λ	4"
SPHL21167	160 - 174	Helical - Standard - 1/4 λ	8"
SPHS21167	162 - 172	Helical - Short - 1/4 λ	4"
SPWH21450	425 - 475	Whip - Standard - 1/4 λ	6"
SPHS21450	432 - 468	Helical - Short - 1/4 λ	3"
SPHS21490	475 - 512	Helical - Short - 1/4 λ	3"
SPWH21832	782 - 882	Whip - Standard - 1/4 λ	3"
SPHS21832	800 - 864	Helical - Short - 1/4 λ	2.75"
SPWH21918	863 - 973	Whip - Standard - 1/4 λ	3"
SPHS21918	872 - 954	Helical - Short - 1/4 λ	2.75"
SPHL21FT	Field Tunable 136 - 221	Helical - Standard - 1/4 λ	8"
SPWH21FT	Field Tunable 400 - 512	Whip - Standard - 1/4 λ	6"

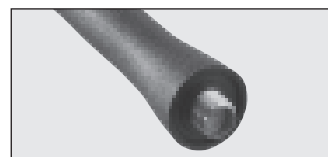
PORTABLE RADIO ANTENNAS

SPOTS!

SMA FEMALE STANDARD - FLUSH BASE - T2 (SFJ TYPE)

CODE 22

PART NUMBER	FREQUENCY BAND (MHZ)	ANTENNA TYPE	APPROX LENGTH
SPWB22150	136 - 174	Helical - Standard - 1/4 λ	6.75"
SPHL22156	150 - 162	Helical - Standard - 1/4 λ	8"
SPHL22167	160 - 174	Helical - Standard - 1/4 λ	8"
SPWH22450	425 - 475	Whip - Standard - 1/4 λ	6"
SPHS22450	432 - 468	Helical - Short - 1/4 λ	3"
SPWH22470	450 - 490	Whip - Standard - 1/4 λ	6"
SPHS22470	452 - 468	Helical - Short - 1/4 λ	3"
SPHS22490	475 - 512	Helical - Short - 1/4 λ	3"
SPWH22832	782 - 882	Whip - Standard - 1/4 λ	3"
SPHS22832	800 - 864	Helical - Short - 1/4 λ	2.75"
SPWH22918	863 - 973	Whip - Standard - 1/4 λ	3"
SPHS22918	872 - 954	Helical - Short - 1/4 λ	2.75"
SPHL22FT	Field Tunable 136 - 221	Helical - Standard - 1/4 λ	8"
SPWH22FT	Field Tunable 400 - 512	Whip - Standard - 1/4 λ	6"



SMA F T2

SMA Female recessed insulator & partial (short) skirt (SFJ type)

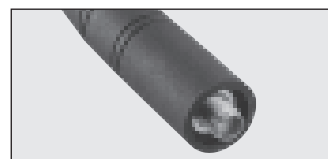
Popular Brands Supported

EF Johnson, Kenwood

SMA FEMALE STANDARD - HALF SKIRT BASE - T3 (SFU TYPE)

CODE 23

PART NUMBER	FREQUENCY BAND (MHZ)	ANTENNA TYPE	APPROX LENGTH
SPWB23150	136 - 174	Helical - Standard - 1/4 λ	6.75"
SPHL23167	160 - 174	Helical - Standard - 1/4 λ	8"
SPWH23450	425 - 475	Whip - Standard - 1/4 λ	6"
SPHS23450	432 - 468	Helical - Short - 1/4 λ	3"
SPWH23470	450 - 490	Whip - Standard - 1/4 λ	6"
SPHS23470	452 - 488	Helical - Short - 1/4 λ	3"
SPWH23490	470 - 512	Whip - Standard - 1/4 λ	6"
SPHS23490	475 - 512	Helical - Short - 1/4 λ	3"
SPWH23832	782 - 882	Whip - Standard - 1/4 λ	3"
SPWH23918	863 - 973	Whip - Standard - 1/4 λ	3"
SPHS23918	872 - 954	Helical - Short - 1/4 λ	2.75"
SPHL23FT	Field Tunable 136 - 221	Helical - Standard - 1/4 λ	8"
SPWH23FT	Field Tunable 400 - 512	Whip - Standard - 1/4 λ	6"



SMA F T3

SMA Female recessed insulator & partial (long) skirt (SFU type)

Popular Brands Supported

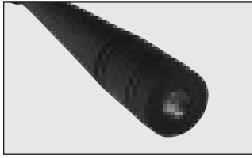
Kenwood (2005 and newer models), Uniden, King

1 800 ANTENNA (268-3662)

NOTE: Antennas are not to scale

PORTABLE RADIO ANTENNAS

SPOTS!



SMA MALE T2
SMA Male flush base
(SM Type)

Popular Brands
G.E., Technophone,
Relm

SMA MALE - FLUSH BASE - T2 (SM TYPE)

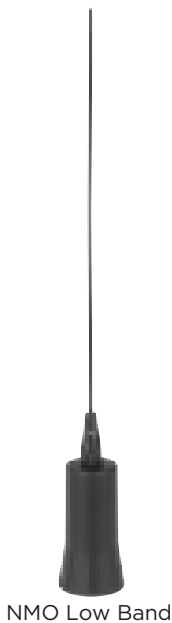
CODE 24

PART NUMBER	CONNECTOR	FREQUENCY BAND (MHz)	ANTENNA TYPE	APPROX LENGTH
SPDA24700/2700	SMA Male	698-960/1710-2170/2500-2700	Multiband	9"
SPDA24832	SMA	824 - 894	Center Fed Dipole	9"
SPDA24850/1900	SMA	824 - 894 / 1850 - 1990	Center Fed Dipole	7.5"
SPDA24918	SMA M T2	890 - 960	Center Fed Dipole	8"
SPDA241800	SMA M T2	1710 - 1880	Center Fed Dipole	6.5"
SPDA241900	SMA M T2	1850 - 1990	Center Fed Dipole	6.5"
SPDA242400	SMA	2400 - 2500	Center Fed Dipole	6"
SPDA24RP918	SMA M T2 RP	890 - 960	Center Fed Dipole	8"
SPDA24RP2400	SMA M T2 RP	2400 - 2500	Center Fed Dipole	6"
SPDP24832	SMA M T2	824 - 894	Center Fed Dipole	8"
SPDP24918	SMA M T2	890 - 960	Center Fed Dipole	
SPDP242400	SMA M T2	2400 - 2500	Center Fed Dipole	3.5"
SPEN24815	SMA M T2	760 - 870	Whip - End Fed - 1/2 λ	7
SPHS24832	SMA M T2	800 - 864	Helical - Short - 1/4 λ	2.75"
SPWB24150	SMA M T2	136 - 174	Wideband	7.5"
SPWB24425	SMA M T2	380 - 470	Wideband	6.5"
SPWB24480	SMA M T2	440 - 520	Wideband	6"
SPWH24815	SMA M T2	760 - 870	Whip - Short - 1/4 Wave	3.5
SPWH24918	SMA M T2	863 - 973	Whip - Standard - 1/4 λ	3"
SPHS24918	SMA M T2	872 - 954	Helical - Short - 1/4 λ	2.75"
SPHL24FT	SMA M T2	Field Tunable 136 - 221	Helical - Standard - 1/4 λ	8"
SPWH24FT	SMA M T2	Field Tunable 400 - 512	Whip - Standard - 1/4 λ	6"
R380.500.125	SMA M T2 RP	2400 - 2500	Molded - 1/4 λ	2.5"

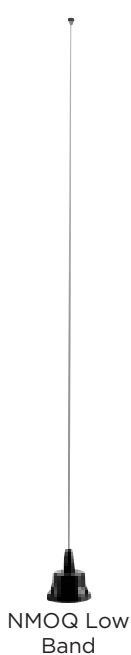
LOW/MID BAND 27-136 MHz

LOW BAND COILS/WHIPS

Model	Type	Frequency (MHz)	Gain (dBd/dBi)	Max Height (In)	Power Rating (Watts)	Whip Color	Cable Assembly/Mount
NMO27BCO	Loaded 1/4 λ	27-30		4	150	Coil Only	Order Separately
NMO27B	Loaded 1/4 λ	27-30	0/2	52.5	150	Black	Order Separately
NMO27C	Loaded 1/4 λ	27-30	0/2	52.5	150	Stainless	Order Separately
NMO30BCO	Loaded 1/4 λ	30-34		4	150	Coil Only	Order Separately
NMO30B	Loaded 1/4 λ	30-34	0/2	57.5	150	Black	Order Separately
NMO30C	Loaded 1/4 λ	30-34	0/2	57.5	150	Stainless	Order Separately
NMO34BCO	Loaded 1/4 λ	34-40		4	150	Coil Only	Order Separately
NMO34B	Loaded 1/4 λ	34-40	0/2	57.5	150	Black	Order Separately
NMO34C	Loaded 1/4 λ	34-40	0/2	57.5	150	Stainless	Order Separately
NMO40BCO	Loaded 1/4 λ	40-50		3.5	150	Coil Only	Order Separately
NMO40B	Loaded 1/4 λ	40-50	0/2	57.5	150	Black	Order Separately
NMO40C	Loaded 1/4 λ	40-50	0/2	57.5	150	Stainless	Order Separately
NMOWB40C	Loaded 1/4 λ	40-50	0/2	55	150	Stainless	Order Separately
NMO50BCO	Loaded 1/4 λ	47-54		3.5	150	Coil Only	Order Separately
NMO50B	Loaded 1/4 λ	47-54	0/2	52.5	150	Black	Order Separately
NMO50C	Loaded 1/4 λ	47-54	0/2	52.5	150	Stainless	Order Separately
NMOQ52C	1/4 λ	52-88	0/2	55	150	Stainless	Order Separately
NMOQ88C	1/4 λ	88-136	0/2	35	150	Stainless	Order Separately
Q52	1/4 λ	52-88	0/2	55	200	Stainless	Order Separately
Q88	1/4 λ	88-136	0/2	35	200	Stainless	Order Separately



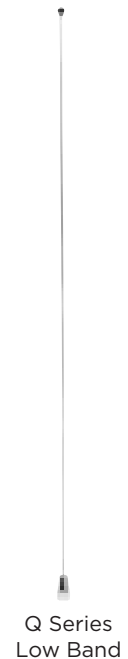
NMO Low Band



NMOQ Low Band



NMOWB Low Band



Q Series Low Band

The most commonly used cable assembly/mount is the NMOKHFUD (27 MHz to 6 GHz) with 17' of UD (RG-58/U Dual Shield).

NOTE: Larsen springs (SPRING or SPRINGB) can be added to most mobile antennas.



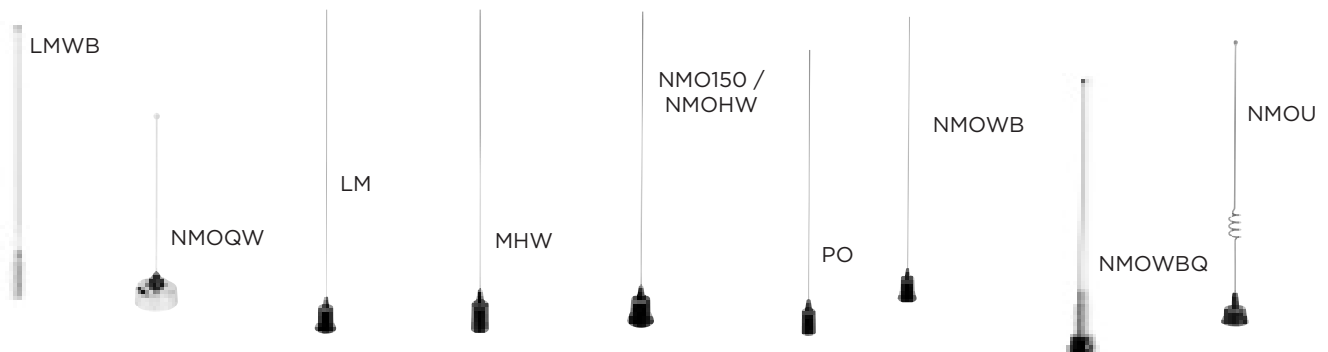
1 800 ANTENNA (268-3662)

NOTE: Antennas are not to scale

VHF 136-220 MHz

VHF COILS/WHIPS

Model	Type	Frequency (MHz)	Gain (dBd/dBi)	Max Height (in)	Power Rating (Watts)	Whip Color	Cable Assembly/ Mount	Connector
MHW150BCO	1/2 λ	144-174	0/2	2.5	200	Coil Only	Order Separately	
MHW150C	1/2 λ	144-174	0/2	51.5	200	Stainless	Order Separately	
NMO150BCO	5/8 λ	144-174		2.5	200	Coil Only	Order Separately	
NMO150B	5/8 λ	144-174	3/5.14	51.5	200	Black	Order Separately	
NMO150C	5/8 λ	144-174	3/5.14	51.5	200	Stainless	Order Separately	
NMO150BK	5/8 λ	144-174	3/5.14	51.5	200	Black	17' RG-58A/U	PL-259
NMO150CK	5/8 λ	144-174	3/5.14	51.5	200	Stainless	17' RG-58A/U	PL-259
NMO150HWBCO	5/8 λ	144-174		2.5	200	Coil Only	Order Separately	
NMO150BHW	1/2 λ	144-174	0/2	51.5	200	Black	Order Separately	
NMO150CHW	1/2 λ	144-174	0/2	51.5	200	Stainless	Order Separately	
NMOU150D	Loaded 1/4 λ	150-165	0/2	18	200	Black	Order Separately	
NMOU155D	Loaded 1/4 λ	155-170	0/2	18	200	Stainless	Order Separately	
NMOWB150BCO	Wideband 1/2 λ	135-174		2.75	100	Coil Only	Order Separately	
NMOWB150B	Wideband 1/2 λ	135-174	0/2	51.75	100	Black	Order Separately	
NMOWB150C	Wideband 1/2 λ	135-174	0/2	51.75	100	Stainless	Order Separately	
NMOWB150BK	Wideband 1/2 λ	135-174	0/2	51.75	100	Black	17' RG-58A/U	PL-259
NMOWBQB	Wideband 1/4 λ	150-170	0/2	20	200	Black	Order Separately	
NMOWBQC	Wideband 1/4 λ	150-170	0/2	20	200	Stainless	Order Separately	
NMOQW144	1/4 λ	144-152	0/2	19	200	Stainless	Order Separately	
NMOQW152	1/4 λ	152-162	0/2	19	200	Stainless	Order Separately	
LM150BCO	5/8 λ	144-174		2.75	200	Coil Only	Order Separately	
LM150B	5/8 λ	144-174		51.75	200	Black	Order Separately	
LM150C	5/8 λ	144-174		51.75	200	Stainless	Order Separately	
LMWBQ	Wideband 1/4 λ	150-170	0/2	18.5	200	Stainless	Order Separately	
LMWBQB	Wideband 1/4 λ	150-170	0/2	18.5	200	Black	Order Separately	
PO150BCO	5/8 λ	144-174	0/2	2.5	200	Coil Only	Order Separately	
PO150B	5/8 λ	144-174	0/2	51.5	200	Black	Order Separately	
PO150C	5/8 λ	144-174	0/2	51.5	200	Black	Order Separately	



The most commonly used cable assembly/mount is the NMOKHFUD (27 MHz to 6 GHz) with 17' of UD (RG-58/U Dual Shield).

NOTE: Larsen springs (SPRING or SPRINGB) can be added to most mobile antennas.



VHF 136-220 MHz

VHF GLASS MOUNT

Model	Type	Frequency (MHz)	Gain (dBd/dBi)	Max Height (In)	Power Rating (Watts)	Whip Color	Cable Assembly/ Mount	Connector
KGFFREQUDPL2	VHF Disguise	140-149	0/2	20	100	Black	14' RG-58/U	PL-259
KGFFREQUDPL3	VHF Disguise	150-159	0/2	20	100	Black	14' RG-58/U	PL-259
KGFFREQUDPL4	VHF Disguise	160-170	0/2	20	100	Black	14' RG-58/U	PL-259
KG144O/S	1/2 λ	144-160	0/2	48	100	Black	Order Separately	
KG144UD	1/2 λ	144-160	0/2	48	100	Black	14' RG-58/U	No Conn
KG144UDPL	1/2 λ	144-160	0/2	48	100	Black	14' RG-58/U	PL-259
KG160O/S	1/2 λ	160-174	0/2	47	100	Black	Order Separately	
KG160UD	1/2 λ	160-174	0/2	47	100	Black	14' RG-58/U	No Conn
KG160UDPL	1/2 λ	160-174	0/2	47	100	Black	14' RG-58/U	PL-259
KGVHFUDI/S	Inside Cable Unit	144-174			100		14' RG-58/U	No Conn



VHF LOW PROFILE

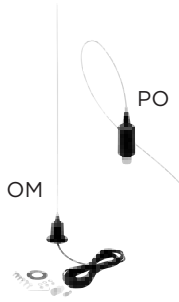
Model	Frequency (MHz)	Gain (dBd/dBi)	Size H x DIA (In)	Power Rating (Watts)	Color	Cable Assembly/ Mount
LP152NMO	151.02-152.98	0/2	3.75 x 4.5	60	Black	Order Separately
LP154NMO	152.96-155.04	0/2	3.75 x 4.5	60	Black	Order Separately
LP156NMO	154.42-156.58	0/2	3.75 x 4.5	60	Black	Order Separately
LP158NMO	156.38-158.62	0/2	3.75 x 4.5	60	Black	Order Separately
LP160NMO	158.33-160.67	0/2	3.75 x 4.5	60	Black	Order Separately
LP162NMO	160.29-162.71	0/2	3.75 x 4.5	60	Black	Order Separately
LP164NMO	162.75-165.25	0/2	3.75 x 4.5	60	Black	Order Separately
LP167NMO	165.21-167.79	0/2	3.75 x 4.5	60	Black	Order Separately
LP169NMO	167.68-170.32	0/2	3.75 x 4.5	60	Black	Order Separately
LP171NMO	170.16-172.84	0/2	3.75 x 4.5	60	Black	Order Separately
LP174NMO	172.14-174.86	0/2	3.75 x 4.5	60	Black	Order Separately

The most commonly used cable assembly/mount is the NMOKHFUD (27 MHz to 6 GHz) with 17' of UD (RG-58/U Dual Shield).

1 800 ANTENNA (268-3662)

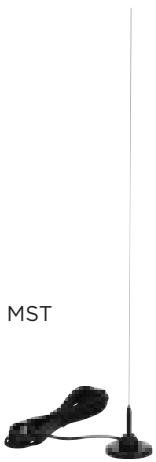
NOTE: Antennas are not to scale

VHF 136-220 MHz



VHF DIRECT MOUNTS

Model	Type	Frequency (MHz)	Gain (dBd/dBi)	Max Height (In)	Power Rating (Watts)	Whip Color	Cable Assembly	Connector
OM150BCO	1/2 λ	144-174		3	200	Coil Only	17' RB-58A/U	PL-259
OM150CK	1/2 λ	144-174	0/2	51.75	200	Stainless	17' RB-58A/U	PL-259
PHW150BCO	1/2 λ	144-174	0/2	2.5	200	Coil Only	Order Separately	
PHW150C	1/2 λ	144-174	0/2	56.5	200	Stainless	Order Separately	



VHF MAGNETIC MOUNTS

Model	Type	Frequency (MHz)	Gain (dBd/dBi)	Max Height (In)	Power Rating (Watts)	Whip Color	Cable Assembly	Connector
MSTFME	Tunable 1/4 λ	144-965	0/2	21	50	Black	12' RG-174	FME Crimp



VHF 220 MHz

Model	Type	Frequency (MHz)	Gain (dBd/dBi)	Max Height (In)	Power Rating (Watts)	Whip Color	Cable Assembly/ Mount
NMO220BCO	5/8 λ	220-225	3/5.2	2.5	200	Coil Only	Order Separately
NMO220B	5/8 λ	220-225	3/5.2	30	200	Black	Order Separately
NMO220C	5/8 λ	220-225	3/5.2	30	200	Stainless	Order Separately
NMO220HWBCO	1/2 λ	220-225		3	200	Coil Only	Order Separately
NMO220CHW	1/2 λ	220-225	0/2	30	200	Stainless	Order Separately

The most commonly used cable assembly/mount is the NMOKHFUD (27 MHz to 6 GHz) with 17' of UD (RG-58/U Dual Shield).

NOTE: Larsen springs (SPRING or SPRINGB) can be added to most mobile antennas.



UHF 406-512 MHz

UHF COILS/WHIPS

Model	Type	Frequency (MHz)	Gain (dBd/dBi)	Max Height (in)	Power Rating (Watts)	Whip Color	Cable Assembly
LMUHFBASEB	Base Only	406-512		2	200	Coil Only	Order Separately
LM406C	5/8 over 1/2 λ	406-420	3.5/5.6	33	200	Stainless	Order Separately
LM440C	5/8 over 1/2 λ	440-460	3.5/5.6	33	200	Stainless	Order Separately
LM450C	5/8 over 1/2 λ	450-470	3.5/5.6	33	200	Stainless	Order Separately
NMO4063CS	5/8 λ	406-430	3/5.14	19	200	Stainless	Order Separately
NMO4303CS	5/8 λ	430-450	3/5.14	19	200	Stainless	Order Separately
NMO4503CS	5/8 λ	450-470	3/5.14	19	200	Stainless	Order Separately
NMO4703CS	5/8 λ	470-490	3/5.14	19	200	Stainless	Order Separately
NMO4903CS	5/8 λ	490-512	3/5.14	19	200	Stainless	Order Separately
NMO406B	5/8 over 1/2 λ	406-420	3.5/5.6	33	200	Black	Order Separately
NMO406C	5/8 over 1/2 λ	406-420	3.5/5.6	33	200	Stainless	Order Separately
NMO420B	5/8 over 1/2 λ	420-440	3.5/5.6	33	200	Black	Order Separately
NMO420C	5/8 over 1/2 λ	420-440	3.5/5.6	33	200	Stainless	Order Separately
NMO440B	5/8 over 1/2 λ	440-460	3.5/5.6	33	200	Black	Order Separately
NMO440C	5/8 over 1/2 λ	440-460	3.5/5.6	33	200	Stainless	Order Separately
NMO450B	5/8 over 1/2 λ	450-470	3.5/5.6	33	200	Black	Order Separately
NMO450C	5/8 over 1/2 λ	450-475	3.5/5.6	33	200	Stainless	Order Separately
NMO470C	5/8 over 1/2 λ	470-490	3.5/5.6	33	200	Stainless	Order Separately
NMO490B	5/8 over 1/2 λ	490-512	3.5/5.6	33	200	Black	Order Separately
NMO490C	5/8 over 1/2 λ	490-512	3.5/5.6	33	200	Stainless	Order Separately
NMO406HWBCO	Base Only	406-420		2.5	200	Coil Only	Order Separately
NMO406CHW	1/2 λ Collinear	406-420	3.4/5.5	35.5	200	Stainless	Order Separately
NMO420CHW	1/2 λ Collinear	420-440	3.4/5.5	35.5	200	Stainless	Order Separately
NMO440CHW	1/2 λ Collinear	440-460	3.4/5.5	35.5	200	Stainless	Order Separately
NMO450HWBCO	Base Only	420-512		2.5	200	Coil Only	Order Separately
NMO450CHW	1/2 λ Collinear	450-470	3.4/5.5	35.5	200	Stainless	Order Separately
NMOQBASE1B	Base Only	Whip Size .070		2	200	Coil Only	Order Separately
NMOQBASE2B	Base Only	Whip Size .100		2	200	Coil Only	Order Separately
NMOQBASE3B	Base Only	Whip Size .125		2	200	Coil Only	Order Separately
NMOUHBBASEB	Base Only	Whip Size .100		2	200	Coil Only	Order Separately
NMOQW406	1/4 λ	406-430	0/2	7	200	Stainless	Order Separately
NMOQW450	1/4 λ	450-470	0/2	7	200	Stainless	Order Separately
NMOWB406BCO	Wide Band Coil	406-512		2.5	200	Coil Only	Order Separately
NMOWB406C	Wide Band	406-430	3.4/5.5	35.5	200	Stainless	Order Separately
NMOWB430C	Wide Band	430-455	3.4/5.5	35.5	200	Stainless	Order Separately
NMOWB450C	Wide Band	450-475	3.4/5.5	35.5	200	Stainless	Order Separately
NMOWB470C	Wide Band	470-495	3.4/5.5	35.5	200	Stainless	Order Separately
NMOWB490C	Wide Band	490-515	3.4/5.5	35.5	200	Stainless	Order Separately



The most commonly used cable assembly/mount is the NMOKHFUD (27 MHz to 6 GHz) with 17' of UD (RG-58/U Dual Shield).

NOTE: Larsen springs (SPRING or SPRINGB) can be added to most mobile antennas.



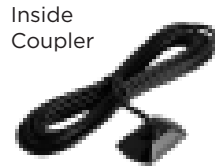
1 800 ANTENNA (268-3662)

NOTE: Antennas are not to scale

UHF 406-512 MHz

UHF GLASS MOUNT

Model	Type	Frequency (MHz)	Gain (dBd/dBi)	Max Height (In)	Power Rating (Watts)	Whip Color	Cable Assembly/ Mount	Connector
KG406O/S	1/2 λ	406-420	0/2	15	100	Black	Order Separately	
KG406UD	1/2 λ	406-420	0/2	15	100	Black	14' RG-58/U	No Conn
KG406UDPL	1/2 λ	406-420	0/2	15	100	Black	14' RG-58/U	PL-259
KG420O/S	1/2 λ	420-440	0/2	15	100	Black	Order Separately	
KG420UDPL	1/2 λ	420-440	0/2	15	100	Black	14' RG-58/U	PL-259
KG450O/S	1/2 λ	450-470	0/2	15	100	Black	Order Separately	
KG450UD	1/2 λ	450-470	0/2	15	100	Black	14' RG-58/U	No Conn
KG450UDPL	1/2 λ	450-470	0/2	15	100	Black	14' RG-58/U	PL-259
KG470O/S	1/2 λ	470-490	0/2	15	100	Black	Order Separately	
KG470UD	1/2 λ	470-490	0/2	15	100	Black	14' RG-58/U	No Conn
KG490O/S	1/2 λ	490-512	0/2	15	100	Black	Order Separately	
KG490UD	1/2 λ	490-512	0/2	15	100	Black	14' RG-58/U	No Conn
KGUHFUDI/S	Inside Coupler Only 406-512				100		14' RG-58/U	No Conn



UHF LOW PROFILE

Model	Frequency (MHz)	Gain (dBd/dBi)	Size H x DIA (In)	Power Rating (Watts)	Color	Cable Assembly/ Mount
LP406NMO	406-420	0/2	1.5 x 4.5	100	Black	Order Separately
LP406NMOW	406-420	0/2	1.5 x 4.5	100	Black	Order Separately
LP420NMO	416-430	0/2	1.5 x 4.5	100	Black	Order Separately
LP420NMOW	416-430	0/2	1.5 x 4.5	100	Black	Order Separately
LP450NMO	450-470	0/2	1.5 x 4.5	100	Black	Order Separately
LP450NMOW	450-470	0/2	1.5 x 4.5	100	Black	Order Separately
LP470NMO	470-490	0/2	1.5 x 4.5	100	Black	Order Separately
LP470NMOW	470-490	0/2	1.5 x 4.5	100	Black	Order Separately
LP490NMO	490-512	0/2	1.5 x 4.5	100	Black	Order Separately
LP490NMOW	490-512	0/2	1.5 x 4.5	100	Black	Order Separately
LPT450NMO	450-470	0/2	4.5 x 1.5	100	Black	Order Separately



The most commonly used cable assembly/mount is the NMOKFUD (27 MHz to 6 GHz) with 17' of UD (RG-58/U Dual Shield).

www.pulseelectronics.com/products/antennas

NOTE: Antennas are not to scale

UHF 406-512 MHz

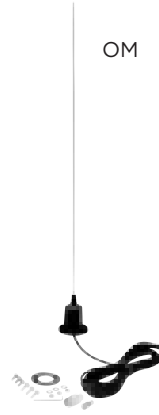
UHF DIRECT MOUNTS

Model	Type	Frequency (MHz)	Gain (dBd/dBi)	Size (In)	Power Rating (Watts)	Whip Color	Cable Assembly	Connector
LP450	Low Profile	450-470	0/2	1.25H x 5.25D	100	N/A	17' RG-58/U	No Conn
OM406BCO	1/2 λ	406-440		4	100	Coil Only	17' RG-58A/U	No Conn
OM450BCO	1/2 λ	440-512		4	100	Coil Only	17' RG-58A/U	No Conn
OM406CK	1/2 λ Collinear	406-420	3.4/5.5	35.5	100	Stainless	17' RG-58A/U	No Conn
OM420CK	1/2 λ Collinear	420-440	3.4/5.5	35.5	100	Stainless	17' RG-58A/U	No Conn
OM450CK	1/2 λ Collinear	450-470	3.4/5.5	35.5	100	Stainless	17' RG-58A/U	No Conn
OM470CK	1/2 λ Collinear	470-490	3.4/5.5	35.5	100	Stainless	17' RG-58A/U	No Conn

LP Direct Mount



OM



UHF MAGNETIC MOUNTS

Model	Type	Frequency (MHz)	Gain (dBd/dBi)	Max Height (In)	Power Rating (Watts)	Whip Color	Cable Assembly	Connector
MSTFME	Tunable 1/4 λ	144-965	0/2	21	50	Black	12' RG-174	FME Crimp
MSTBNCFT	Tunable 1/4 λ	144-965	0/2	21	50	Black	12' RG-174	TNC

MST

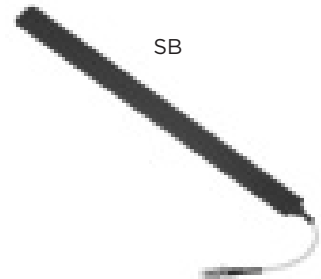


UHF STEALTH BLADES

Stealth Blade antennas have a gain of 2.14 dBi, a maximum power of 3 Watts and linear polarization.

Model	Frequency (MHz)	Bandwidth % @1.5/2.1	Dimensions L x W (In)	Coax	Connector
SB450FME12	450-470	20/30	10" x 0.75"	12' RG-316	FME

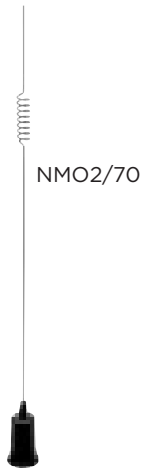
SB



MULTI BAND VHF/UHF

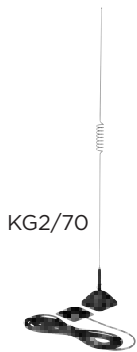
MULTI BAND VHF/UHF COILS/WHIPS

Model	Type	Frequency (MHz)	Gain (dBi)	Max Height (In)	Power Rating (Watts)	Whip Color	Cable Assembly
NMO2/70BCO	Dual Band Coil	144-148 / 440-450			100	Coil Only	Order Separately
NMO2/70B	VHF: Center Loaded 1/2 λ	144-148	3.8	34.5	100	Black	Order Separately
	UHF: Collinear	440-450	5.2				
NMO2/70SH	VHF: Center Loaded 1/2 λ	144-148	2.14	19	200	Stainless	Order Separately
	UHF: Center Loaded 3/4 λ	440-450	4				
NMO150/450C	VHF: Center Loaded 1/2 λ	150-154	3.8	37.25	100	Stainless	Order Separately
	UHF: Collinear	450-460	5.2				
NMO150/450/800	Tri Band	150-165 / 450-470 / 806-940	2.14	16.5	100	Black	Order Separately



MULTI BAND VHF/UHF GLASS MOUNT

Model	Type	Frequency (MHz)	Gain (dBd/dBi)	Max Height (In)	Power Rating (Watts)	Whip Color	Cable Assembly	Connector
KG2/70CXPL	1/2 λ Collinear	144-148 / 442-448	0/2	32.75	100	Black	14' RG-58A/U	PL-259
KG2/70CXFME	1/2 λ Collinear	144-148 / 442-448	0/2	32.75	100	Black	14' RG-58A/U	FME



MULTI BAND VHF/UHF MAGNETIC MOUNTS

Model	Type	Frequency (MHz)	Gain (dBi)	Max Height (In)	Power Rating (Watts)	Whip Color	Cable Assembly	Connector
MM2/70PL	VHF: Center Loaded 1/4 λ	144-148	2	21	50	Black	12' RG-58A/U	PL-259
	UHF: Center Loaded 3/4 λ	442-448	4					



The most commonly used cable assembly/mount is the NMOKHFUD (27 MHz to 6 GHz) with 17' of UD (RG-58/U Dual Shield).

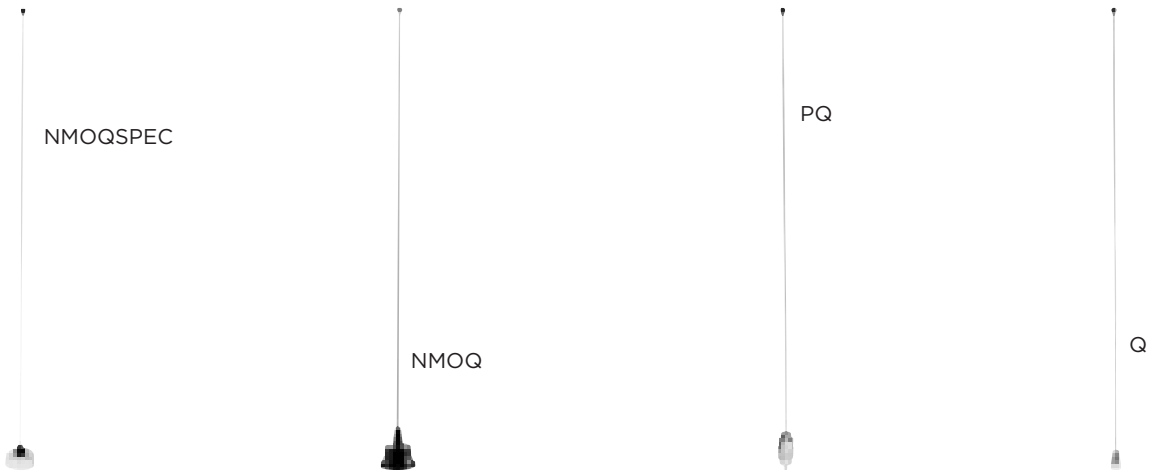
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NOTE: Antennas are not to scale

TUNABLE 1/4 WAVE 136-960 MHz

TUNABLE 1/4 WAVE COILS/WHIPS

Model	Frequency (MHz)	Gain (dBd/dBi)	Max Height (In)	Power Rating (Watts)	Whip Color	Cable Assembly
NMOQSPEC	136-960	0/2	22	200	Stainless	Order Separately
NMOQSPECB	136-960	0/2	22	200	Black	Order Separately
NMOQC	136-512	0/2	23	200	Stainless	Order Separately
NMOQB	136-512	0/2	23	200	Black	Order Separately
PQ	136-512	0/2	22	200	Stainless	Order Separately
Q	136-512	0/2	22	200	Stainless	Order Separately
QB	136-512	0/2	22	200	Black	Order Separately



TUNABLE 1/4 WAVE MAGNETIC MOUNTS

Model	Frequency (MHz)	Gain (dBd/dBi)	Max Height (In)	Power Rating (Watts)	Whip Color	Cable Assembly	Connector
MSTFME	144-965	0/2	21	50	Black	12' RG-174	FME Crimp



The most commonly used cable assembly/mount is the NMOKHFUD (27 MHz to 6 GHz) with 17' of UD (RG-58/U Dual Shield).

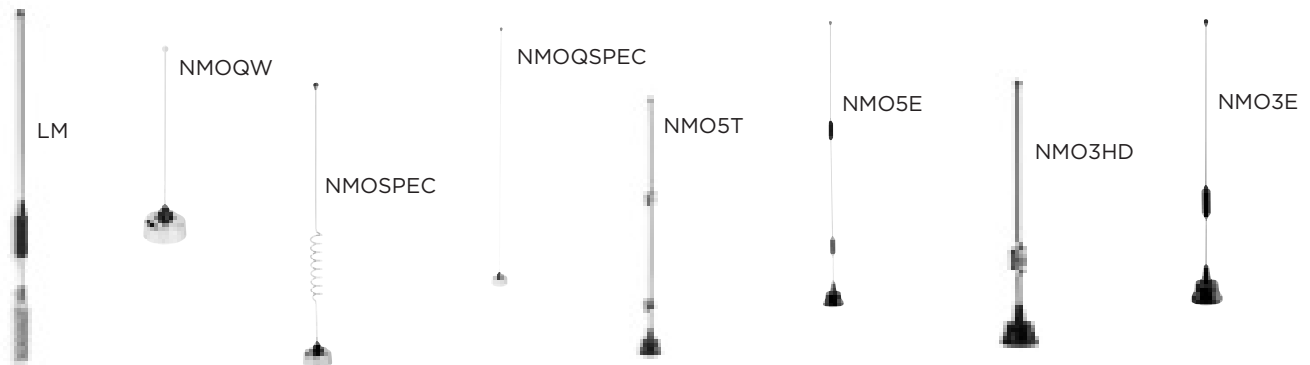
1 800 ANTENNA (268-3662)

NOTE: Antennas are not to scale

700/800/900/1850 MHz

700/800/900/1850 MHz COILS/WHIPS

Model	Type	Frequency (MHz)	Gain (dBd/dBi)	Max Height (In)	Power Rating (Watts)	Whip Color	Cable Assembly	Conn
LM800	5/8 over 1/2 λ	806-866	3.5/5.6	14.5	200	Stainless	Order Separately	N/A
LM825	5/8 over 1/2 λ	824-896	3.5/5.6	14.5	200	Stainless	Order Separately	N/A
LM900	5/8 over 1/2 λ	890-960	3.5/5.6	14.5	200	Stainless	Order Separately	N/A
NMOQW700	1/4 λ	740-806	0/2	3	200	Stainless	Order Separately	N/A
NMOQW800	1/4 λ	806-896	0/2	3	200	Stainless	Order Separately	N/A
NMOQW900	1/4 λ	890-970	0/2	3	200	Stainless	Order Separately	N/A
NMQSPEC800B	1/4 λ	806-896	0/2	4	200	Black	Order Separately	N/A
NMQSPEC900B	1/4 λ	890-970	0/2	4	200	Black	Order Separately	N/A
NMQ700B	1/4 λ	740-806	0/2	4.5	200	Black	Order Separately	N/A
NMQ800B	1/4 λ	806-896	0/2	4.5	200	Black	Order Separately	N/A
NMQ900B	1/4 λ	890-960	0/2	4.5	200	Black	Order Separately	N/A
NMOSPEC800	5/8 over 1/4 λ	806-866	3.3/5.4	13.5	200	Stainless	Order Separately	N/A
NMOSPEC825	5/8 over 1/4 λ	824-896	3.3/5.4	13.5	200	Stainless	Order Separately	N/A
NMOSPEC900	5/8 over 1/4 λ	890-960	3.3/5.4	13.5	200	Stainless	Order Separately	N/A
NMO3HD800B	5/8 over 1/4 λ	806-866	3.3/5.4	13.75	200	Black	Order Separately	N/A
NMO3HD825B	5/8 over 1/4 λ	824-896	3.3/5.4	13.75	200	Black	Order Separately	N/A
NMO3HD800B	5/8 over 1/4 λ	890-960	3.3/5.4	13.75	200	Black	Order Separately	N/A
NMO3E700B	5/8 over 1/4 λ	740-806	3.3/5.4	13.5	200	Black	Order Separately	N/A
NMO3E800B	5/8 over 1/4 λ	806-866	3.3/5.4	13.5	200	Black	Order Separately	N/A
NMO3E825B	5/8 over 1/4 λ	824-896	3.3/5.4	13.5	200	Black	Order Separately	N/A
NMO3E900B	5/8 over 1/4 λ	890-960	3.3/5.4	13.5	200	Black	Order Separately	N/A
NMO700	5/8 over 1/2 λ	740-806	3.5/5.6	12.75	200	Stainless	Order Separately	N/A
NMO800	5/8 over 1/2 λ	806-866	3.5/5.6	12.75	200	Stainless	Order Separately	N/A
NMO825	5/8 over 1/2 λ	824-896	3.5/5.6	12.75	200	Stainless	Order Separately	N/A
NMO900	5/8 over 1/2 λ	890-960	3.5/5.6	12.75	200	Stainless	Order Separately	N/A
NMO800B	5/8 over 1/2 λ	806-866	3.5/5.6	12.75	200	Black	Order Separately	N/A
NMO825B	5/8 over 1/2 λ	824-896	3.5/5.6	12.75	200	Black	Order Separately	N/A
NMO900B	5/8 over 1/2 λ	890-960	3.5/5.6	12.75	200	Black	Order Separately	N/A
NMO5T800B	5/8 over 5/8 over 1/4 λ	806-866	5/7.2	18	200	Black	Order Separately	N/A
NMO5T825B	5/8 over 5/8 over 1/4 λ	824-896	5/7.2	18	200	Black	Order Separately	N/A
NMO5T900B	5/8 over 5/8 over 1/4 λ	890-960	5/7.2	18	200	Black	Order Separately	N/A
NMO5E825B	5/8 over 5/8 over 1/4 λ	824-896	5/7.2	19	200	Black	Order Separately	N/A
NMO5E900B	5/8 over 5/8 over 1/4 λ	890-960	5/7.2	19	200	Black	Order Separately	N/A
Q800	1/4 λ	806-866	0/2	3.5	200	Stainless	Order Separately	N/A
Q900	1/4 λ	890-960	0/2	3.5	200	Stainless	Order Separately	N/A



The most commonly used cable assembly/mount is the NMOKHFUD (27 MHz to 6 GHz) with 17' of UD (RG-58/U Dual Shield).

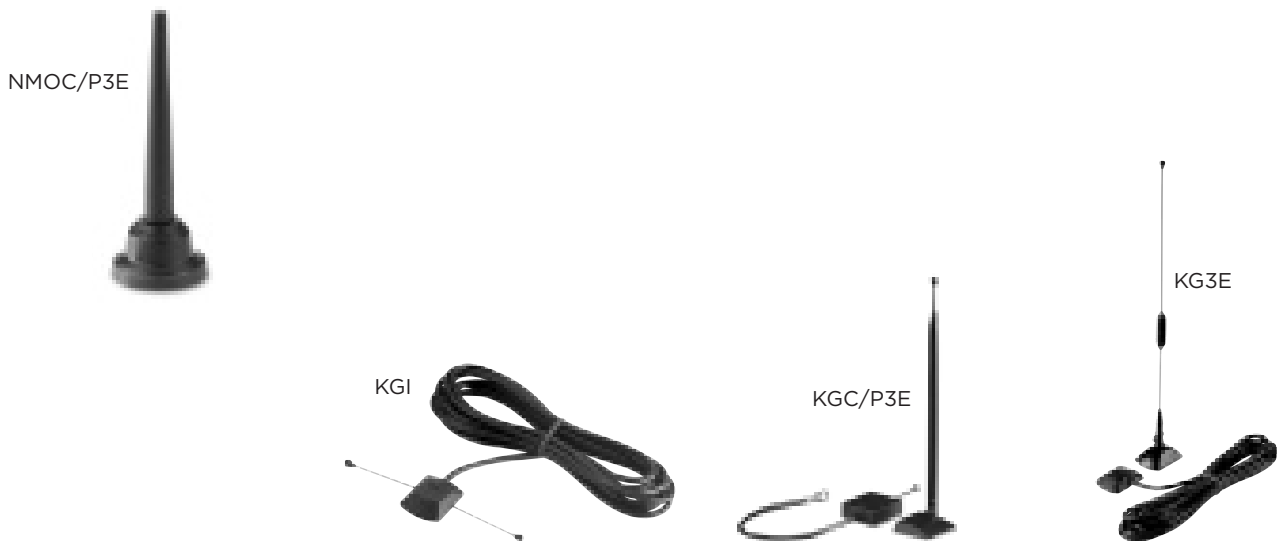
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NOTE: Antennas are not to scale

700/800/900/1850 MHz

700/800/900/1850 MHz COILS/WHIPS (CONTINUED)

Model	Type	Frequency (MHz)	Gain (dBd/dBi)	Max Height (In)	Power Rating (Watts)	Whip Color	Cable Assembly	Conn
NMOC/P3E	5/8 over 1/4 λ	824-960 1850-1990	1.9/4	4.7	10	Black	Order Separately	
NMOC/P3EUD	5/8 over 1/4 λ	824-960 1850-1990	1.9/4	4.7	10	Black	17' RG-58/U	No Conn
NMOC/P3EUDFME	5/8 over 1/4 λ	824-960 1850-1990	1.9/4	4.7	10	Black	17' RG-58/U	FME
NMOC/P3EUDMPL	5/8 over 1/4 λ	824-960 1850-1990	1.9/4	4.7	10	Black	17' RG-58/U	MPL
NMOC/P3EUDSMA	5/8 over 1/4 λ	824-960 1850-1990	1.9/4	4.7	10	Black	17' RG-58/U	SMA
NMOC/P3EUDTNC	5/8 over 1/4 λ	824-960 1850-1990	1.9/4	4.7	10	Black	17' RG-58/U	TNC



700/800/900/1850 MHz GLASS MOUNT

Optimum glass thickness 0.138" through 0.158"

Model	Type	Frequency (MHz)	Gain (dBd/dBi)	Height (In)	Rating (Watts)	Whip Color	Cable Assembly	Connector
KG3E825UD	5/8 over 1/2 λ	806-896	3/5.14	13	60	Black	14' RG-58/U	No Conn
KG3E825UDFME	5/8 over 1/2 λ	806-896	3/5.14	13	60	Black	14' RG-58/U	FME
KG3E825UDMPL	5/8 over 1/2 λ	806-896	3/5.14	13	60	Black	14' RG-58/U	MPL
KG3E825UDTNC	5/8 over 1/2 λ	806-896	3/5.14	13	60	Black	14' RG-58/U	TNC
KG3E900UD	5/8 over 1/2 λ	890-960	3/5.14	13	60	Black	14' RG-58/U	No Conn
KG3E900UDFME	5/8 over 1/2 λ	890-960	3/5.14	13	60	Black	14' RG-58/U	FME
KG3E900UDMPL	5/8 over 1/2 λ	890-960	3/5.14	13	60	Black	14' RG-58/U	MPL
KG3E825O/S	5/8 over 1/2 λ	806-896	3/5.14	13	60	Black	Outside Coupler Only	
KG3E900O/S	5/8 over 1/2 λ	890-960	3/5.14	13	60	Black	Outside Coupler Only	
KG1825	1/4 λ Dipole	806-896	0/2		60	Black	14' RG-58/U	No Conn
KG3E/P3EUD	Cellular: Collinear PCS: 5/8 over 5/8 over 1/2 λ	824-896 1850-1990	3/5.14 3/5.14	13	7	Black	15' RB-58/U	No Conn
KG3E/P3EUDFME	Cellular: Collinear PCS: 5/8 over 5/8 over 1/2 λ	824-896 1850-1990	3/5.14 3/5.14	13	7	Black	15' RB-58/U	FME

The most commonly used cable assembly/mount is the NMOKHFUD (27 MHz to 6 GHz) with 17' of UD (RG-58/U Dual Shield).

1 800 ANTENNA (268-3662)

NOTE: Antennas are not to scale

700/800/900/1850 MHz

700/800/900/1850 MHz NMO MOUNT LOW PROFILE

Model	Frequency (MHz)	Gain (dBd/dBi)	Size H x DIA (In)	Power Rating (Watts)	Color	Cable Assembly
LP800NMO	806-960	0/2	1.5 x 4.5	100	Black	Order Separately
LP800NMOW	806-960	0/2	1.5 x 4.5	100	White	Order Separately
LPT700/800NMO	740-866	0/2	3.25 x 1.5	100	Black	Order Separately
LPT800/900NMO	806-960	0/2	3.25 x 1.5	100	Black	Order Separately
LPT825/19NMOHF	Cellular: 806-960 PCS: 1710-2170 ISM: 2400	.8/3 .8/3 1.9/4	3 x 1.75	10	Black	Order Separately Requires NMOHF Mount
SLPT698/960NMO	698-960	2.35/4.5	3 x 1.5	10	Black	Order Separately
SLPT698/2170NMOHF	Cellular: 698-960 PCS: 1710-2170 ISM: 2400-2700	2.35/4.5 3.45/5.6 1.85/4	3 x 1.75	10	Black	Order Separately Requires NMOHF Mount

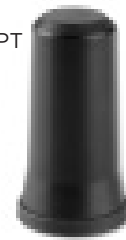
SLPT NMO



LP



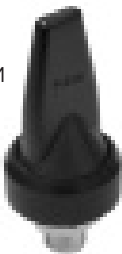
LPT



700/800/900/1850 MHz DIRECT MOUNTS

Model	Type	Frequency (MHz)	Gain (dBd/dBi)	Size (In)	Power Rating (Watts)	Color	Cable Assembly	Connector
LP800	Low Profile	806-960	0/2	1.25H x 5.25D	100	Black	17' RG-58/U	No Conn
OM800UD	5/8 over 1/2 λ	806-866	1/3.2	15.5 H	60	Black	14' RG-58/U	No Conn
OM800UDMPL	5/8 over 1/2 λ	806-866	1/3.2	15.5 H	60	Black	14' RG-58/U	MPL
OM800UDTNC	5/8 over 1/2 λ	806-866	1/3.2	15.5 H	60	Black	14' RG-58/U	TNC
OM825UD	5/8 over 1/2 λ	824-896	1/3.2	15.5 H	60	Black	14' RG-58/U	No Conn
OM825UDMPL	5/8 over 1/2 λ	824-896	1/3.2	15.5 H	60	Black	14' RG-58/U	MPL
OM825UDTNC	5/8 over 1/2 λ	824-896	1/3.2	15.5 H	60	Black	14' RG-58/U	TNC
OM900UD	5/8 over 1/2 λ	890-960	1/3.2	15.5 H	60	Black	14' RG-58/U	No Conn
SLPT698/869DMN	Low Profile	698-869	2.35/4.5	3 x 1.5	10	Black	Order Separately	N Female
SLPT806DMN	Low Profile	806-960	2.35/4.5	3 x 1.5	10	Black	Order Separately	N Female
SLPT698/2170DMN	Low Profile	Cellular: 698-960 PCS: 1710-2170 ISM: 2400-2700	2.35/4.5 3.45/5.6 1.85/4	3 x 1.75	10	Black	Order Separately	N Female

SLPT DM



LP Direct Mount



OM



The most commonly used cable assembly/mount is the NMOHFUD (27 MHz to 6 GHz) with 17' of UD (RG-58/U Dual Shield).

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NOTE: Antennas are not to scale

700/800/900/1850 MHz

700/800/900/1850 MHz MAGNETIC MOUNTS

Model	Type	Frequency (MHz)	Gain (dBd/dBi)	Max Height (In)	Power Rating (Watts)	Whip Color	Cable Assembly	Connector
MS3E800FME	5/8 over 1/2 λ	806-896	3.5/5.6	13	60	Black	12' RG-58A/U	FME
MS3E800MPL	5/8 over 1/2 λ	806-896	3.5/5.6	13	60	Black	12' RG-58A/U	MPL
MS3E800TNC	5/8 over 1/2 λ	806-896	3.5/5.6	13	60	Black	12' RG-58A/U	TNC
MS3E900MPL	5/8 over 1/2 λ	890-960	3.5/5.6	13	60	Black	12' RG-58A/U	MPL
MS3E900TNC	5/8 over 1/2 λ	890-960	3.5/5.6	13	60	Black	12' RG-58A/U	TNC
MS3E900SMA	5/8 over 1/2 λ	890-960	3.5/5.6	13	40	Black	12' RG-58A/U	SMA
MM5E900BNC	5/8 over 5/8 over 1/4 λ	890-960	5/7.12	16.5	60	Black	12' RG-58A/U	BNC
MM5T900SMA	5/8 over 5/8 over 1/4 λ	890-960	5/7.2	18	60	Black	12' RG-58A/U	SMA
MM5T900SMARP	5/8 over 5/8 over 1/4 λ	890-960	5/7.2	18	60	Black	12' RG-58A/U	SMA RP
MSU800FME	1/2 λ	806-896	0/2	4	40	Black	12' RG-58A/U	FME
MSU900FME	1/2 λ	890-960	0/2	4	40	Black	12' RG-58A/U	FME
MMC/P3EFME	5/8 over 1/4 λ	Cell: 824-960 PCS: 1850-1990	1.9/4 1.9/4	5	7	Black	12' RG-58/U	FME
MMC/P3EMPL	5/8 over 1/4 λ	Cell: 824-960 PCS: 1850-1990	1.9/4 1.9/4	5	7	Black	12' RG-58/U	MPL
MMC/P3ETNC	5/8 over 1/4 λ	Cell: 824-960 PCS: 1850-1990	1.9/4 1.9/4	5	7	Black	12' RG-58/U	TNC
MMC/P3ESMA	5/8 over 1/4 λ	Cell: 824-960 PCS: 1850-1990	1.9/4 1.9/4	5	7	Black	12' RG-58/U	SMA



NOTE: Antennas are not to scale

1 800 ANTENNA (268-3662)

700/800/900/1850 MHz

700/800/900/1850 MHz STEALTH BLADES

Stealth Blade antennas have the following specifications:

Gain: 2.14 dBi
Maximum Power: 3 Watts
Polarization: Linear

Model	Frequency (MHz)	Bandwidth % @1.5/2.1	Dimensions L x W (In)	Coax	Connector
SB8003	806-896	67/90	5.2 x .75	3' RG-174	No Conn
SB80012	806-896	67/90	5.2 x .75	12' RG-174	No Conn
SB800FME3	806-896	67/90	5.2 x .75	3' RG-174	FME
SB800FME12	806-896	67/90	5.2 x .75	12' RG-174	FME
SB800MPL3	806-896	67/90	5.2 x .75	3' RG-174	MPL
SB800MPL12	806-896	67/90	5.2 x .75	12' RG-174	MPL
SB800SMA3	806-896	67/90	5.2 x .75	3' RG-174	SMA
SB800TNC3	806-896	67/90	5.2 x .75	3' RG-174	TNC
SB800TNC12	806-896	67/90	5.2 x .75	12' RG-174	TNC
SB9003	890-960	67/90	5.2 x .75	3' RG-174	No Conn
SB90012	890-960	55/70	5.2 x .75	12' RG-174	No Conn
SB900SMA3	890-960	55/70	5.2 x .75	3' RG-174	SMA
SB900SMA12	890-960	55/70	5.2 x .75	12' RG-174	SMA
R380.900.323	806-960 / 1710-2170		5 X .8	10' RG-174	FME
R380.900.334	806-960 / 1710-2170		5 X .8	10' RG-174	SMA



SINGLE BAND GLASS MOUNT

GPS glass mount single band antennas have the following specifications:

Frequency:	1575.4 MHz	Gain:	1.5 dBi
Pattern:	Herispherical	LNA Gain:	26 dB ± 2 dB
Polarization:	Right-Hand Circular	VSWR:	1.5:1
Mounting:	Double Sided Tape	Voltage:	3 or 5 V DC

Model	Size		Color	Cable	Connector
	H x L x W (In)				
GPSGMSMA	.2 x 3 x 1.2		Black	16.4' RG-174	SMA
GPSGMSMB	.2 x 3 x 1.2		Black	16.4' RG-174	SMB



MULTI BAND GLASS MOUNT

GPS glass mount multi band antennas have the following specifications:

Frequency:	824-960 / 1710-2170 / 1575.4 MHz	Gain:	2/4 dBi
Pattern:	Herispherical	LNA Gain:	26 dB ± 2 dB
Polarization:	Linear Verical/Omni	VSWR:	2.5:1/1.5:1
Mounting:	Double Sided Tape	Voltage:	3 or 5 V DC

Model	Size		Color	Cable	Connector
	H x L x W (In)				
GPSGM800/2170FS	.3 x 2 x 4		Black	16.4' RG-174	FME/SMA



GPS LOW PROFILE SINGLE BAND

GPS low profile single band antennas have the following specifications:

Frequency:	1575.4 MHz	Gain:	5 dBic
Pattern:	Herispherical	LNA Gain:	28 dB ± 2 dB
Polarization:	Right-Hand Circular	VSWR:	2.0:1
Mounting:	NMO Mount	Voltage:	5 V DC

Model	Size		Color	Cable	Connector
	H x D (In)				
GPSNMO01	1.3 x 2.9		White	Order Separately	Order Separately
GPSNMO02	1.3 x 2.9		Black	Order Separately	Order Separately
GPSNMO07	1.3 x 2.9		White	17' RG-58/U	SMB
GPSNMO08	1.3 x 2.9		Black	17' RG-58/U	SMB
GPSNMO09	1.3 x 2.9		White	17' RG-58/U	SMA
GPSNMO10	1.3 x 2.9		Black	17' RG-58/U	SMA



The most commonly used cable assembly/mount is the NMOHFUD (27 MHz to 6 GHz) with 17' of UD (RG-58/U Dual Shield).

1 800 ANTENNA (268-3662)

NOTE: Antennas are not to scale

GPSDM



GPS SINGLE BAND DIRECT MOUNTS

GPS single band direct mount antennas have the following specifications:

Frequency:	1575.4	Polarization:	Right-Hand Circular
Gain:	5 dBic	Coax:	17' RG-174
LNA Gain:	28 dB ± 2 dB	Voltage:	5 V DC
Pattern:	Hemispherical	Color:	Black
Mounting:	Direct Feed 5/8" hole	Size:	.07" H x 2.5" Dia

Model	Connector
GPSDM02	MCX
GPSDM04	MMCX
GPSDM06	SMB
GPSDM08	SMA

GPS COMBI WHIP DIRECT MOUNTS

GPS combi whip direct mount antennas have the following specifications:

LNA Gain:	26 dB ± 2 dB	Pattern:	Hemispherical / Omni
Polarization:	Right-Hand Circular /Vertical	Coax:	16.4' RG-174 / 16.4' RG-174
Mounting:	Direct Feed 5/8" hole	Voltage:	5 V DC
Color:	Black	Base Size:	2" W x 2.3" L x 0.7" H

Model	Frequency (MHz)	Gain (dBi/dBic)	Whip Length (In)	Connector
GPSCW1502	136-174 / 1575.42	2.14/5	22	SMA/SMB
GPSCW4501	406-512 / 1575.42	2.14/5	6.25	SMA/SMA
GPSCW4502	406-512 / 1575.42	2.14/5	6.25	SMA/SMB
GPSCW3E8001	806-896 / 1575.42	5/5	11.5	SMA/SMA
GPSCW3E8003	806-896 / 1575.42	5/5	11.5	FME/SMA

GPSCW



GPSCW3E



GPS LTE DIRECT MOUNTS

Model	Frequency (MHz)	Gain (dBd/dBi)	Polarization	VSWR	Mounting	Voltage	Size	Cable	Conn
							H x Dia (In)		
GPSDM700/2500FFS	698-960/1710-2170/2300-2700	.9/3	Linear Vertical	2.0:1	3/4" Hole	3 or 5	3.5 x 4.16	17' RG-58	FME
	2400-2485/5150-5850	3.9/6	Linear Vertical	17' RG-58				FME	
	1575.42	5 dBic	RHCP	17' RG-174				SMA	



GPSDM700/2500

GPS MULTI BAND DIRECT MOUNTS

GPS multi band direct mount antennas have the following specifications:

Frequency: 824-960 / 1710-2170 / 1575.4 MHz

VSWR: <2.0:1

Gain: 2 dBi / 2 dBi / 5 dBic

LNA Gain: 26 dB ± 2 dB

Pattern: Omni / Omni / Hemispherical

Voltage: 3 or 5 V DC

Polarization: Vertical / Vertical / Right-Hand Circular

Coax: 16.4' RG-174 / 16.4' RG-174

Mounting: Direct Feed 3/4" hole



GPSCP

Model	Size	Color	Connector
	L x W x D (In)		
GPSCP00	7.6 x 3.4 x 1.3	Black	TNC/SMA
GPSCP01	7.6 x 3.4 x 1.3	White	No Conn
GPSCP02	7.6 x 3.4 x 1.3	Black	No Conn/SMA
GPSCP03	7.6 x 3.4 x 1.3	White	No Conn/SMA
GPSCP04	7.6 x 3.4 x 1.3	Black	No Conn/SMB
GPSCP05	7.6 x 3.4 x 1.3	White	No Conn/SMB
GPSCP06	7.6 x 3.4 x 1.3	Black	SMA/SMA
GPSCO07	7.6 x 3.4 x 1.3	White	SMA/SMA
GPSCP08	7.6 x 3.4 x 1.3	Black	MPL/SMA
GPSCP09	7.6 x 3.4 x 1.3	White	MPL/SMA
GPSCP10	7.6 x 3.4 x 1.3	Black	TNC/BNC
GPSCWCP00	3.9 x 2.3 x 3.2	Black	TNC/SMA
GPSCWCP01	3.9 x 2.3 x 3.2	Black	No Conn/SMA
GPSCWCP02	3.9 x 2.3 x 3.2	Black	No Conn/SMB
GPSCWCP03	3.9 x 2.3 x 3.2	Black	SMA/MPL
GPSCWCP04	3.9 x 2.3 x 3.2	Black	SMA/SMA



GPSCW

NOTE: Antennas are not to scale

1 800 ANTENNA (268-3662)



GPS LTE DIRECT MOUNTS

NMOHFGPS mounts have the following specifications:

Frequency:	1575.4 - 1576.4 MHz	Gain:	5 dBic
Polarization:	Right-Hand Circular / Vertical	LNA Gain:	26 dB ± 2 dB
Cable:	16.4' RG-174 (GPS)	VSWR:	Less than 2:1
	16.4' RG-58 (NMOHF)	Voltage:	3 or 5 V DC
Size:	.5 x 2 x 4.5	Color:	Black
Mounting:	5/8" Hole		

Model	Connectors
NMOHFGPSFMENOCNN	FME/No Connector
NMOHFGPSFMESMA	FME/SMA
NMOHFGPSNOCNN	No Connectors
NMOHFGPSSMASMA	SMA/SMA

NOTE: Specifications listed refer to GPS performance. Additional antenna specifications are dependent on the antenna mounted on the NMO side.

SINGLE BAND MAGNETIC MOUNTS

GPS single band magnetic mount antennas have the following specifications:

Frequency:	1575.4 MHz	Gain:	5 dBic
Pattern:	Herispherical	LNA Gain:	26 dB ± 2 dB
Polarization:	Right-Hand Circular	VSWR:	Less than 2:1
Cable:	17' RG-174	Voltage:	5 V DC



GPS Single Band Mag Mount

Model	Size	Color	Connector
	H x L x W (In)		
GPS0002	0.5 x 1.75 x 1.5	Black	MCX
GPS0006	0.5 x 1.75 x 1.5	Black	SMB
GPS0008	0.5 x 1.75 x 1.5	Black	No Conn
GPS0010	0.5 x 1.75 x 1.5	Black	SMA
GPS0012	0.5 x 1.75 x 1.5	Black	BNC

MULTI BAND MAGNETIC MOUNTS

GPS Multi band magnetic mount antennas have the following specifications:

Frequency:	824-960 / 1710-2170 / 1575.4 MHz
Gain:	2 dBi / 2 dBi / 5 dBic
LNA Gain:	26 dB ± 2 dB
Pattern:	Omni / Omni / Herispherical
Polarization:	Verticl / Vertical / Right-Hand Circular
VSWR:	Less than 2:1
Cable:	17' RG-174
Voltage:	3 or 5 V DC



GPS Multi Band Mag Mount

Model	Size	Color	Connector
	H x L x W (In)		
GPSCPMM00	1.3 x 7.6 x 3.4	Black	TNC/SMA
GPSCPMM02	1.3 x 7.6 x 3.4	Black	No Conn/SMA

GPS MULTI BAND STEALTH BLADES

Model	Frequency (MHz)	Gain	Dimensions L x W x D (In)	Polarization	Voltage	Color	Coax	Connector
GPSSB800/2170FS	806 - 960	0 dBi	5.4 x 1.5 x .6	Linear Vert	3 or 5	Black	16.4' RG-174	FME
	1710 - 2170	0 dBi		RHCP			16.4' RG-174	SMA
	1575.4	26 (LNA)						



GPS TIMING ANTENNA

Model	Frequency (MHz)	LNA Gain (± 2 dB)	Dimensions H x W (In)	Polarization	Voltage (DC)	Color	Mounting	Connector
GPS0015	1575.42 \pm 1.023	25	4 x 4.5	RHCP	4-15	White	Bracket	N Male



LTE, 4G, BROADBAND

NOTE: All NMO mount antennas listed in this catalog section require the NMOHF-style (high frequency 27 MHz - 6 GHz) mount.

LTE, 4G BROADBAND WHIPS

Model	Type	Frequency (MHz)	Gain (dBd/dBi)	Max Height (In)	VSWR	Cable Assembly
EF2405NMO	Elevated Feed	2400-2500	2.9/5	16	<1.5:1	Order Separately
EF4905NMO	Elevated Feed	4900-5000	2.9/5	12	<1.5:1	Order Separately
NMO4E4900B	Elevated Feed	4900-5350	1.9/4	4.5	2:1	Order Separately
NMO4E5350B	Elevated Feed	5350-5925	4.9/4	4.5	2:1	Order Separately
NMO5E2400B	Collinear	2400-2500	2.95	8.5	1.5:1	Order Separately
R380500109	Dipole	2400-2500	0/2	3.5	1.5:1	Order Separately
R380500125	Dipole	2400-2500	0/2	2.5	1.5:1	Order Separately
SPDA17RP2400/5900	PCB	2400-2500 4900-5900	0/2 2.9/5	6 (Bent) 7 (Straight)	2:1	Order Separately
SPDA17806/2170LAR	PCB	806-960 1710-2170	0/5 0/5	6 (Bent) 7.5 (Straight)	2.5:1	Order Separately
SPDA24700/2700	PCB	698-960 1710-2170 2500-2700	0/0 0/0 0/0	9 (Straight)	2.5:1	Order Separately



EF



NMO5E



NMO4E



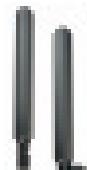
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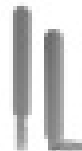
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SPDA17RP2400/5900



SPDA24700/2700



SPDA17806/2170LAR

GPS LTE DIRECT MOUNTS

Model	Frequency (MHz)	Gain (dBd/dBi)	Polarization	VSWR	Mounting	Voltage	Size H x Dia (In)	Cable	Conn
GPSDM700/2500FFS	698-960/1710-2170/2300-2700	.9/3	Linear Vertical	2.0:1	3/4" Hole	3 or 5	3.5 x 4.16	17' RG-58	FME
	2400-2485/5150-5850	3.9/6	Linear Vertical					17' RG-58	FME
	1575.42	5 dBic	RHCP					17' RG-174	SMA



GPSDM700/2500

The most commonly used cable assembly/mount is the NMOKHFUD (27 MHz to 6 GHz) with 17' of UD (RG-58/U Dual Shield).

LTE, 4G, BROADBAND

NOTE: All NMO mount antennas listed in this catalog section require the NMOHF-style (high frequency 27 MHz - 6 GHz) mount.

700/800/900/1850 MHz LOW PROFILE

Model	Frequency (MHz)	Gain (dBd/dBi)	Mount	Size H x DIA (In)	Power Rating (Watts)	Color	Cable Assembly
LPT825/19NMOHF	Cellular: 806-960 PCS: 1710-2170 ISM: 2400	.8/3 .8/3 1.9/4	NMOHF	3 x 1.75	10	Black	Order Separately
LPT2400NMOHF	2400-2500	2.9/5	NMOHF	3 x 1.75	10	Black	Order Separately
SLPT698/2170NMOHF	LTE: 698-960 PCS: 1710-2170 ISM: 2400-2700	2.35/4.5 3.45/5.6 1.85/4	NMOHF	3 x 1.75	10	Black	Order Separately
SLPT2400NMOHF	2400-2500	2.15/4.3	NMOHF	2.6 x 1.5	10	Black	Order Separately
SLPT4900NMOHF	4900-5900	3.35/5.5	NMOHF	2.6 x 1.5	10	Black	Order Separately
SLPT2400/5900NMOHF	2400-2500 4900-5900	2.15/4.3 3.35/5.5	NMOHF	2.6 x 1.5	10	Black	Order Separately
LPT698/2170DM	LTE: 698-960 PCS: 1710-2170 ISM: 2400-2700	2.35/4.5 3.45/5.6 1.85/4	Direct (N Female)	3 x 1.75	10	Black	Order Separately
SLPT2400DMN	2400-2500	2.15/4.3	Direct (N Female)	2.6 x 1.5	10	Black	Order Separately
SLPT4900DMN	4900-5900	3.35/5.5	Direct (N Female)	2.6 x 1.5	10	Black	Order Separately
SLPT2400/5900DMN	2400-2500 4900-5900	2.15/4.3 3.35/5.5	Direct (N Female)	2.6 x 1.5	10	Black	Order Separately



LTE, 4G, BROADBAND STEALTH BLADES

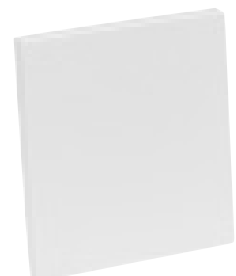
Stealth Blade antennas have a gain of 2.14 dBi, a maximum power of 3 Watts and linear polarization

Model	Frequency (MHz)	Type	Dimensions L x W (In)	Color	Coax	Connector
SB24003	2400-2500	Dipole	3 x .75	Black	3' RG-174	No Conn
SB24006	2400-2500	Dipole	3 x .75	Black	6' RG-174	No Conn
SB2400SMA3	2400-2500	Dipole	3 x .75	Black	3' RG-174	SMA
SB2400SMA6	2400-2500	Dipole	3 x .75	Black	6' RG-174	SMA
SB2400SMB3	2400-2500	Dipole	3 x .75	Black	3' RG-174	SMB
SB2400SMB6	2400-2500	Dipole	3 x .75	Black	6' RG-174	SMB
SB2400MMCX3	2400-2500	Dipole	3 x .75	Black	3' RG-174	MMCX
SB2400MMCX6	2400-2500	Dipole	3 x .75	Black	6' RG-174	MMCX



LTE, 4G, BROADBAND PANELS

Model	Frequency (MHz)	Gain (dBd/dBi)	VSWR	Size L x W x D (In)	Polarization	Connector
PA2101850N	1850-1990	7.9/10	2:1	9.5 x 4 x .8	Vertical	N Female
PA4142400N	2400-2485	12.5/14.2	1.5:1	9.5 x .8 x 8.6	Vertical	N Female



NOTE: Antennas are not to scale

1 800 ANTENNA (268-3662)

LTE, 4G, BROADBAND

LTE, 4G, BROADBAND RADOME OMNIS

NOTE: Radome Omni antennas have the following specifications:

Radome Enclosure: Pultruded Fiberglass (UV Protected)

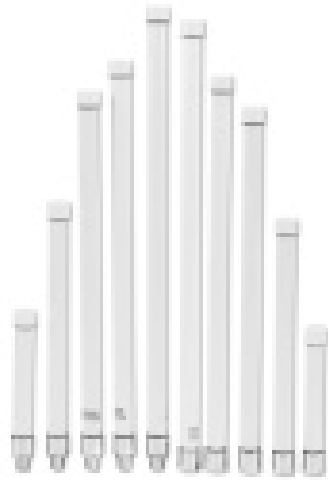
VSWR: 2.0:1

Power Rating: 20 Watts

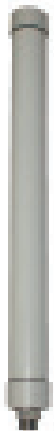
Ingress Protection: IP67

Polarization: Vertical

Suggested mounting brackets for N Female connectors are FB2BRACKET or FB3BRACKET. See Page 45 for FB brackets.



Single Band Radome Omnis



RO806/2170NM

Model	Frequency (MHz)	Gain (dBd/dBi)	Length (In)	Connector
RO2404NM	2400-2500	1.9/4	11.5	N Male
RO2406NF	2400-2500	3.9/6	11.5	N Female
RO2406NM	2400-2500	3.9/6	11.5	N Male
RO2408NF	2400-2500	5.9/8	20	N Female
RO2408NM	2400-2500	5.9/8	20	N Male
RO2408NFD (downtilt)	2400-2500	5.9/8	20	N Female
RO2408NMD (downtilt)	2400-2500	5.9/8	20	N Male
RO2408NFU (uptilt)	2400-2500	5.9/8	20	N Female
RO2408NMU (uptilt)	2400-2500	5.9/8	20	N Male
RO4910NF	4940-4990	7.8/10	18	N Female
RO4910NM	4940-4990	7.8/10	18	N Male
RO5206NF	5150-5350	3.9/6	6.75	N Female
RO5410NF	5470-5725	7.8/10	16.5	N Female
RO5210NF	5150-5350	7.8/10	16.5	N Female
RO5210NM	5150-5350	7.8/10	16.5	N Male
RO5410NM	5470-5725	7.8/10	16.5	N Male
RO5805NF	5150-5825	2.8/5	6.75	N Female
RO5805NM	5150-5825	2.8/5	6.75	N Male
RO5806NF	5725-5875	3.9/6	6.75	N Female
RO5810NF	5725-5875	7.8/10	16.5	N Female
RO5810NM	5725-5875	7.8/10	16.5	N Male
RO806/2170NM	806-960 1710-2170	1.9/4 1.9/4	16.5	N Male

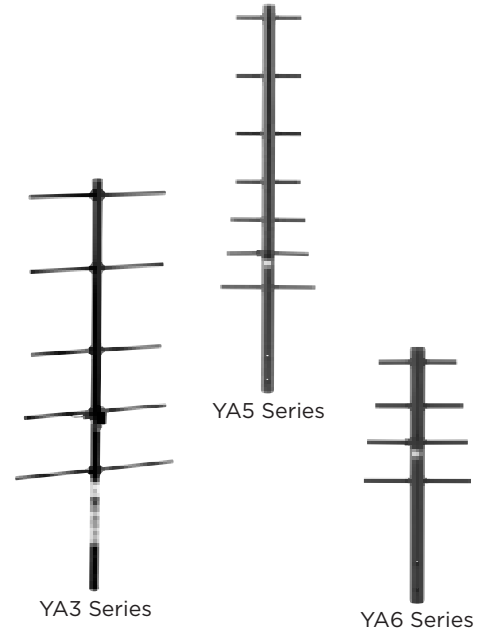
BASE STATION ANTENNAS

YAGIS

All Pulse/Larsen Yagis have the following specifications:

Construction: Fully Welded Elements **Wind Load:** 100 mph
VSWR: 2.0:1 **Feed Connection:** N Female
Power Rating: 300 Watts **Mounting Hardware:** Included

Model	# of Elements	Frequency (MHz)	Gain (dBd/dBi)	Length (In)
YA3406WN	5	406-430	9/11	42.25
YA3450WN	5	450-470	9/11	36.25
YA5740W	7	740-806	9/11	32.75
YA6740W	4	740-806	6/8	19.25
YA5800W	7	806-866	9/11	31.25
YA6800W	4	806-866	6/8	17.5
YA5825W	7	824-896	9/11	31.25
YA6825	4	824-896	6/8	17.5
YA5900W	7	890-960	9/11	30
YA6900W	4	890-960	6/8	17.5

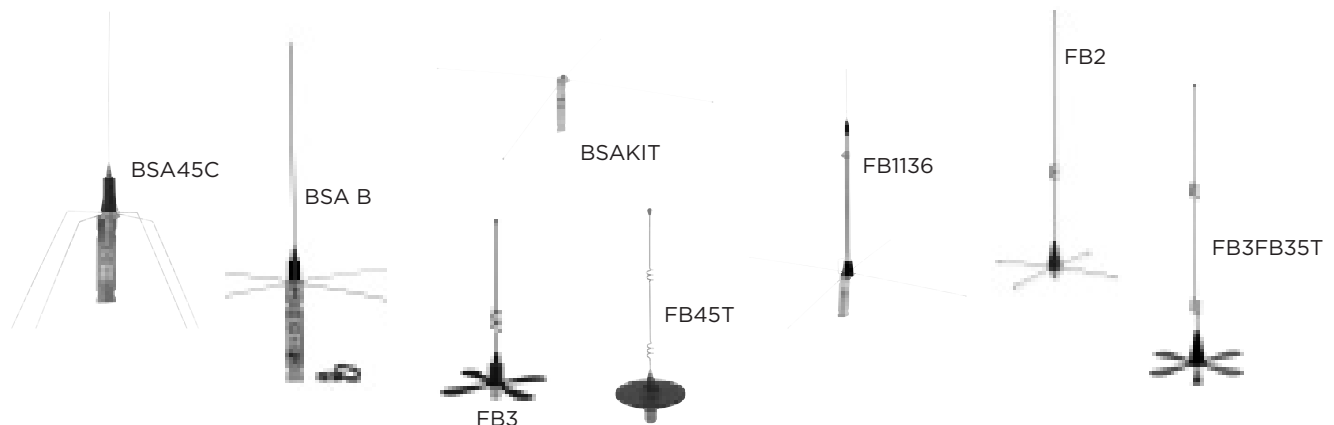


BASE STATION ANTENNAS

OMNI BASE STATION ANTENNAS

Omni Base Station part numbers ending in “WA” do not include mounting hardware. All others include the appropriate FB2BRACKET or FB3BRACKET for mounting. See Page 45 for FB brackets.

Model	Type	Frequency (MHz)	Gain (dBd/dBi)	Max Height (in)	Power Rating (Watts)	Whip Color	Feed Connection
BSA45C	Base Loaded 1/4 λ	45-50	0/2	51.75	200	Stainless	N Female
BSA118B	5/8 λ	118-121	3/5.2	64	200	Black	UHF Female
BSA132B	5/8 λ	131-135	3/5.2	54.5	200	Black	UHF Female
BSA150B	5/8 λ	144-174	3/5.2	51.75	200	Black	UHF Female
BSA150C	5/8 λ	144-174	3/2.5	51.75	200	Black	UHF Female
BSA220C	5/8 λ	200-225	3/5.2	33.75	200	Stainless	UHF Female
BSA406C	5/8 over 1/2 λ	406-420	3.5/5.6	32	200	Stainless	UHF Female
BSA440C	5/8 over 1/2 λ	440-460	3.5/5.6	32	200	Stainless	UHF Female
BSA450C	5/8 over 1/2 λ	450-470	3.5/5.6	32	200	Stainless	UHF Female
BSAKIT	Base Station Ground Plane Kit				200		UHF Female
FB1136	5/8 over 1/2 λ	136-230	3.5/5.6	96	200	Stainless	UHF Female
FB2406	5/8 over 1/4 λ	406-420	3.2/5.4	32.5	200	Black	N Female
FB2450	5/8 over 1/4 λ	450-470	3.2/5.4	32.5	200	Black	N Female
FB2406W/A	5/8 over 1/4 λ	406-420	3.2/5.4	32.25	200	Black	N Female
FB2420W/A	5/8 over 1/4 λ	420-440	3.2/5.4	32.25	200	Black	N Female
FB2450W/A	5/8 over 1/4 λ	450-470	3.2/5.4	32.25	200	Black	N Female
FB3800	5/8 over 1/4 λ	806-866	3.2/5.4	16	150	Black	N Female
FB3825	5/8 over 1/4 λ	824-896	3.2/5.4	16	150	Black	N Female
FB3740WA	5/8 over 1/4 λ	740-806	3.2/5.4	16	150	Black	N Female
FB3800WA	5/8 over 1/4 λ	806-866	3.2/5.4	16	150	Black	N Female
FB3825WA	5/8 over 1/4 λ	824-896	3.2/5.4	16	150	Black	N Female
FB35T800	5/8 over 5/8 over 1/4 λ	806-866	3.2/5.4	32	150	Black	N Female
FB35T825	5/8 over 5/8 over 1/4 λ	824-896	3.2/5.4	32	150	Black	N Female
FB35T800WA	5/8 over 5/8 over 1/4 λ	806-866	5/7.2	32	150	Black	N Female
FB35T825WA	5/8 over 5/8 over 1/4 λ	824-896	5/7.2	32	150	Black	N Female
FB900	5/8 over 1/4 λ	890-960	3.2/5.4	16	150	Black	N Female
FB3900WA	5/8 over 1/4 λ	890-960	3.2/5.4	16	150	Black	N Female
FB35T900	5/8 over 5/8 over 1/4 λ	890-960	5/7.2	23	150	Black	N Female
FB35T900WA	5/8 over 5/8 over 1/4 λ	890-960	5/7.2	23	150	Black	N Female
FB45T2400	5/8 over 5/8 over 1/4 λ	2400-2485	5/7.2	16.5	100	Black	N Female
FB45T2400WA	5/8 over 5/8 over 1/4 λ	2400-2485	5/7.2	9	100	Black	N Female



CABLE ASSEMBLIES/MOUNTS

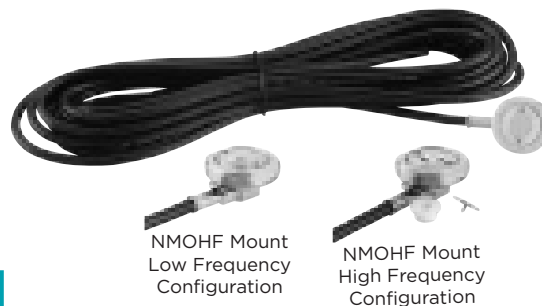
All Larsen NMOHF (high frequency 27 MHz to 6 GHz) mounts convert from low frequency applications to high frequency applications and back by pulling or replacing the center pin and insulator.

NMOHF mounts require a 3/4" hole for mounting and include 17' of coax.

NMOHF mounts accommodate roof surfaces from 0.1" to .03". NMOHFTHK (thick) mounts accommodates roof surfaces up to 1/2" thick.

NMO 3/4" HIGH FREQUENCY MOUNTS

Model	Coax	Connector
NMOKHFCX	CX (RG-58A/U)	No Conn
NMOKHFCXFME	CX (RG-58A/U)	FME CRIMP
NMOKHFCXMPL	CX (RG-58A/U)	MPL
NMOKHFCXPL	CX (RG-58A/U)	PL-259
NMOKHFDS	DS (RG-58A/U Dual Shield)	No Conn
NMOKHFUD	UD (RG-58U Dual Shield)	No Conn
NMOKHFUDFME	UD (RG-58U Dual Shield)	FME
NMOKHFUDMPL	UD (RG-58U Dual Shield)	MPL
NMOKHFUDSMA	UD (RG-58U Dual Shield)	SMA
NMOKHFUDTNC	UD (RG-58U Dual Shield)	TNC
NMOKHF200SMAI	LMR200	SMA Installed



NMO 3/4" HIGH FREQUENCY THICK MOUNTS

Model	Coax	Connector
NMOKHFCXTHK	CX (RG-58A/U)	No Conn
NMOKHFDSTHK	DS (RG-58A/U Dual Shield)	No Conn

If your antenna has a "tab" or "pin" connector, use the NMOHF mount in the low frequency configuration - leave the center pin and insulator in place as it arrives from the factory.

"Pin" connector

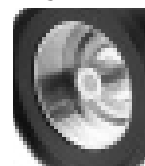


"Tab" connector



If your antenna has a "high frequency" (HF) connector, use the NMOHF mount in the high frequency configuration - remove the center pin and insulator.

"HF" connector



NMO 3/4" STANDARD MOUNTS

NMO 3/4" standard mounts require a 3/4" hole for mounting and include 17' of coax.

Model	Coax	Connector
NMOKNOCONN	CX (RG-58A/U)	No Conn
NMOK	CX (RG-58A/U)	PL-259
NMOKFME	CX (RG-58A/U)	FME
NMOKMPL	CX (RG-58A/U)	MPL Crimp
NMOKDS	DS (RG-58A/U Dual Shield)	No Conn
NMOKDSFME	DS (RG-58A/U Dual Shield)	FME
NMOKUD	UD (RG-58U Dual Shield)	No Conn
NMOKUDFME	UD (RG-58U Dual Shield)	FME
NMOKUDPL	UD (RG-58U Dual Shield)	PL-259T
NMOKUDTNC	UD (RG-58U Dual Shield)	TNC



CABLE ASSEMBLIES/MOUNTS

All Larsen NMOHF (high frequency 27 MHz to 6 GHz) mounts convert from low frequency applications to high frequency applications and back by pulling or replacing the center pin and insulator.



NMO HIGH FREQUENCY MAGNETIC MOUNTS

NMOHF round magnetic mounts have the following specifications:

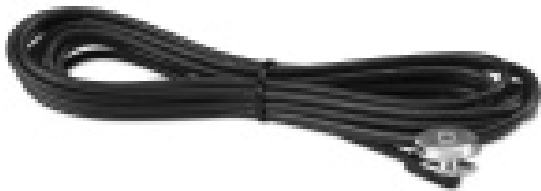
Size: 3.5" Diameter
Cable Length: 12'
Pull Strength: 80 lbs

Model	Coax	Connector
NMOMMRNOCONN	CX (RG-58A/U)	No Conn
NMOMMR	CX (RG-58A/U)	58FCP
NMOMMRFME	CX (RG-58A/U)	FME Crimp
NMOMMRPL	CX (RG-58A/U)	PL-259
NMOMMRMPL	CX (RG-58A/U)	MPL Crimp
NMOMMRTNC	CX (RG-58A/U)	TNC Crimp
NMOMMRBNC	CX (RG-58A/U)	BNC Crimp
NMOMMRN	CX (RG-58A/U)	N Crimp
NMOMMRDS	DS (RG-58A/U Dual Shield)	No Conn
NMOMMRDSFME	DS (RG-58A/U Dual Shield)	FME
NMOMMRDSMPL	DS (RG-58A/U Dual Shield)	MPL Crimp
NMOMMRDSN	DS (RG-58A/U Dual Shield)	N Crimp
NMOMMRDSSMA	DS (RG-58A/U Dual Shield)	SMA
NMOMMRDSSMAR/P	DS (RG-58A/U Dual Shield)	SMARP
NMOMMRDSPL	DS (RG-58A/U Dual Shield)	PL-259T
NMOMMRDSTNC	DS (RG-58A/U Dual Shield)	TNC
NMOMMT200NOCONN	LMR200	No Conn
NMOMMR200SMA	LMR200	SMA
NMOMMR200N	LMR200	N

NMO 3/8" THICK MOUNTS

NMO3/8" mounts have the following specifications:

Mounting: 3/4" hole
Mounting Surface: 0.15" to 0.22" thickness
Cable Length: 17'



Model	Coax	Connector
NMOKCX38THK	CX (RG-58A/U)	No Conn
NMOKUD38THK	DS (RG-58A/U Dual Shield)	No Conn

CABLE ASSEMBLIES/MOUNTS

All Larsen NMOHF (high frequency 27 MHz to 6 GHz) mounts convert from low frequency applications to high frequency applications and back by pulling or replacing the center pin and insulator.

GPS LTE DIRECT MOUNTS

NMOHFGPS mounts have the following specifications:

Frequency:	1575.4 - 1576.4 MHz	Gain:	5 dBic
Polarization:	Right-Hand Circular / Vertical	LNA Gain:	26 dB \pm 2 dB
Cable:	16.4' RG-174 (GPS)	VSWR:	Less than 2:1
	16.4' RG-58 (NMOHF)	Size:	.5 x 2 x 4.5
Voltage:	3 or 5 V DC	Color:	Black
Mounting:	5/8 " Hole		

Model	Connectors
NMOHFGPSFMENOCNN	FME/No Connector
NMOHFGPSFMESMA	FME/SMA
NMOHFGPSNOCNN	No Connectors
NMOHFGPSSMASMA	SMA/SMA

NOTE: Specifications listed refer to GPS performance. Additional antenna specifications are dependent on the antenna mounted on the NMO side.



NMO SQUARE MAGNETIC MOUNTS

NMO square magnetic mounts have the following specifications:

Size:	3.5" x 3"
Cable Length:	12'
Pull Strength:	50 lbs

Model	Coax	Connector
NMOMMNOCONN	CX (RG-58A/U)	No Conn
NMOMMMPL	CX (RG-58A/U)	MPL
NMOMM	CX (RG-58A/U)	58FCP
NMOMMBNC	CX (RG-58A/U)	BNC
NMOMMPL	CX (RG-58A/U)	PL-259
NMOMMFME	CX (RG-58A/U)	FME
NMOMMDSFME	DS (RG-58A/U Dual Shield)	FME



NMO TRUNK LID MOUNTS

NMO trunk lid mounts have the following specifications:

Size:	2.5" x 2"
Cable Length:	17'

Model	Coax	Connector
NMOTLP	CX (RG-58A/U)	PL-259
NMOTLPFME	CX (RG-58A/U)	FME



CABLE ASSEMBLIES/MOUNTS



LM MOUNTS

Model	Coax	Connector
LMKNOCONN	CX (RG-58A/U)	No Conn
LMKFME	CX (RG-58A/U)	FME
LMK	CX (RG-58A/U)	PL-259
LMKDS	DS (RG-58A/U Dual Shield)	No Conn
LMKDSFME	DS (RG-58A/U Dual Shield)	FME
LMKUD	UD (RG-58U Dual Shield)	No Conn
LMKUDFME	UD (RG-58U Dual Shield)	FME



LMMM MAGNETIC MOUNTS

LM magnetic mounts have the following specifications:

Size: 3.5" x 3" **Cable Length:** 12'
Type: 5/16" x 24 THDS **Pull Strength:** 50 lbs

Model	Coax	Connector
LMMMFME	CX (RG-58A/U)	FME Crimp
LMMMPL	CX (RG-58A/U)	MPL Crimp
LMMM	CX (RG-58A/U)	58FCP
LMMBNC	CX (RG-58A/U)	BNC Crimp
LMMMPL	CX (RG-58A/U)	PL-259
LMMMDS	DS (RG-58A/U Dual Shield)	No Conn
LMMMSDFME	DS (RG-58A/U Dual Shield)	FME



LM TRUNK LID MOUNTS

LM trunk lid mounts have the following specifications:

Size: 2.5" x 2" **Cable Length:** 17'
Type: 5/16" x 24 THDS

Model	Coax	Connector
LMTLP	CX (RG-58A/U)	PL-259
LMTLPDS	DS (RG-58A/U Dual Shield)	Order Separately



PO MOUNTS

Model	Coax	Connector
POKNOCONN	CX (RG-58A/U)	No Conn



PO MAGNETIC MOUNTS

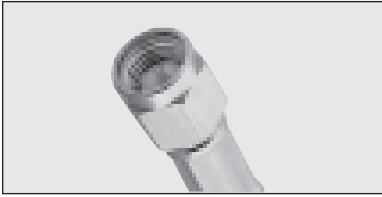
PO magnetic mounts have the following specifications:

Size: 3.5" x 3" **Cable Length:** 12'
Type: SO-239 Female **Pull Strength:** 50 lbs

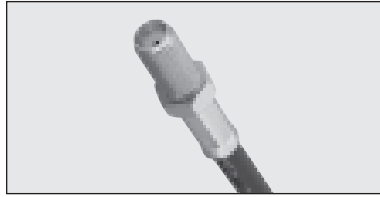
Model	Coax	Connector
POMM	CX (RG-58A/U)	58FCP

CONNECTORS

SMA CONNECTORS



MODEL	DESCRIPTION
SMACP58	SMA Crimp Plug 58/U
CABLE GROUP	58

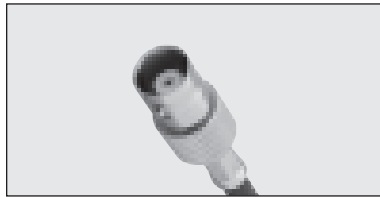


MODEL	DESCRIPTION
SMACJ	SMA Crimp Jack 58/U
CABLE GROUP	58

BNC CONNECTORS



MODEL	DESCRIPTION
BNCCRIMP	BNC Crimp Plug 58/U
CABLE GROUP	58



MODEL	DESCRIPTION
BNCCJ58	BNC Crimp Jack 58/U
CABLE GROUP	58



MODEL	DESCRIPTION
BNC174	BNC Crimp Plug 174/U
CABLE GROUP	174

N CONNECTORS



MODEL	DESCRIPTION
NCRIMP	N Crimp Plug 58/U
CABLE GROUP	58



MODEL	DESCRIPTION
N8	N Clamp Plug 8/U
CABLE GROUP	8



MODEL	DESCRIPTION
NCBJ58	N Crimp Blk Jack 58/U
CABLE GROUP	58

CONNECTORS

TNC CONNECTORS



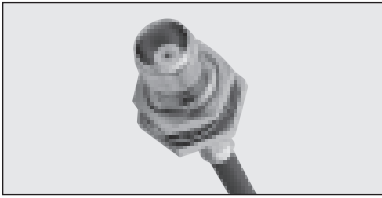
MODEL	DESCRIPTION
TNCCRIMP	TNC Crimp Plug 58/U
CABLE GROUP	58



MODEL	DESCRIPTION
TNC	TNC Clamp Plug 58/U
CABLE GROUP	58



MODEL	DESCRIPTION
TNCCJ	TNC Crimp Jack 58/U
CABLE GROUP	58



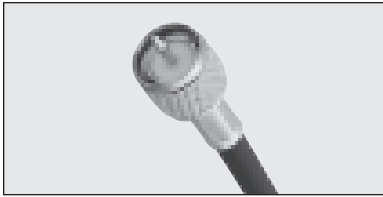
MODEL	DESCRIPTION
TNCCBJ	TNC Crimp Blk Jack 58/U
CABLE GROUP	58



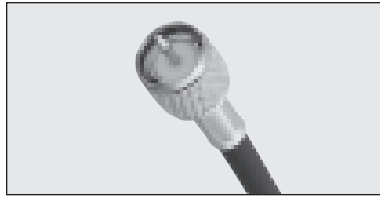
MODEL	DESCRIPTION
TNCAP	TNC Angle Plug 58/U
CABLE GROUP	58

CONNECTORS

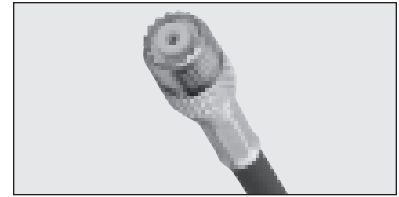
UHF CONNECTORS



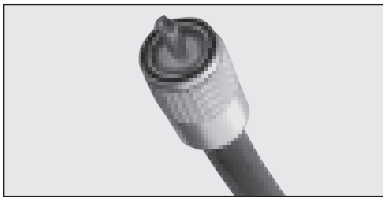
MODEL	DESCRIPTION
MPLCRIMP	M/UHF Crimp Plug 58/U
CABLE GROUP	58



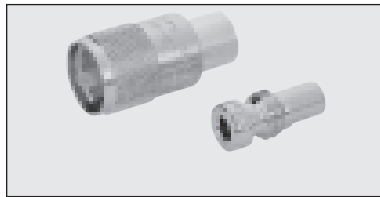
MODEL	DESCRIPTION
MPLCP	M/UHF Crimp Plug 174/U
CABLE GROUP	174



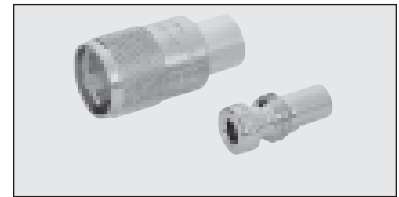
MODEL	DESCRIPTION
MPLCJ58	M/UHF Crimp Jack 58/U
CABLE GROUP	58



MODEL	DESCRIPTION
PL2598PHN	UHF Solder Plug PL 259/U
CABLE GROUP	8



MODEL	DESCRIPTION
PL259T	UHF Solder Plug PL259/U Teflon & Silver UG175 adapter
CABLE GROUP	8/58



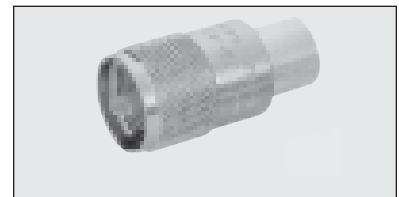
MODEL	DESCRIPTION
PL259	UHF Solder Plug PL259/U with UG 175 adapter
CABLE GROUP	8/5



MODEL	DESCRIPTION
PLCP	UHF Crimp Plug 58/U
CABLE GROUP	58



MODEL	DESCRIPTION
58FCP	UHF FCP Plug 58/U
CABLE GROUP	58



MODEL	DESCRIPTION
PL2598	UHF Solder Plug PL259/U, Teflon & Silver Plate
CABLEGROUP	8/58



MODEL	DESCRIPTION
UG175	UHF Reducing adapter 58/U
CABLE GROUP	58



MODEL	DESCRIPTION
PL258	UHF adapter J/J



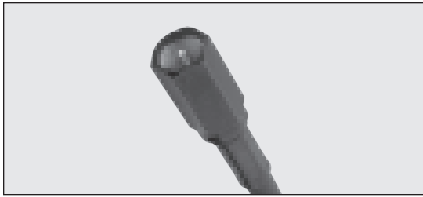
MODEL	DESCRIPTION
UHFBJJ	UHF bulkhead

NOTE: Antennas are not to scale

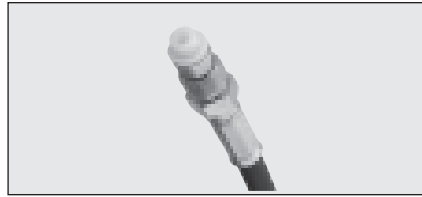
1 800 ANTENNA (268-3662)

CONNECTORS

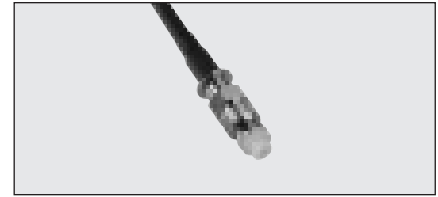
FME CONNECTORS



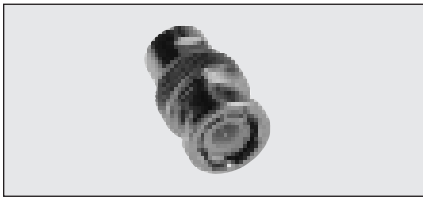
MODEL	DESCRIPTION
FMECP58	FME Crimp Plug 58/U
CABLE GROUP	58



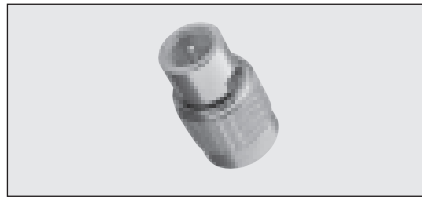
MODEL	DESCRIPTION
FMECRIMP	FME Crimp Jack 58/U
CABLE GROUP	58



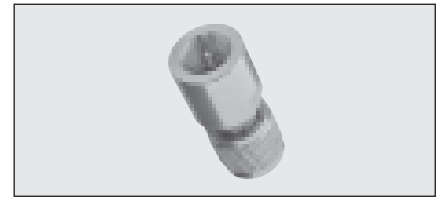
MODEL	DESCRIPTION
FMECJ174	FME Crimp Jack 174/U
CABLE GROUP	174



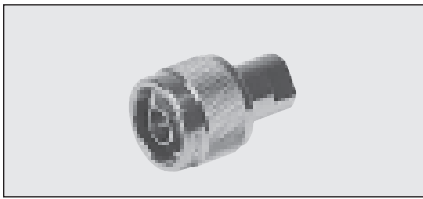
MODEL	DESCRIPTION
FB	FME adapter to BNC plug



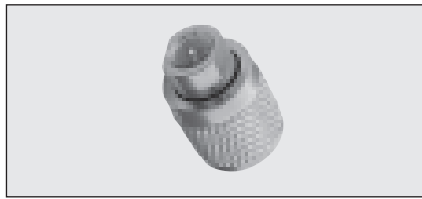
MODEL	DESCRIPTION
FT	FME adapter to TNC plug



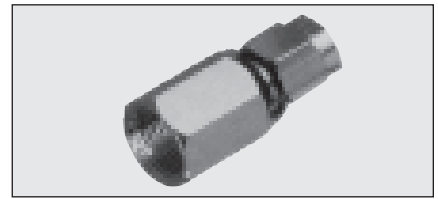
MODEL	DESCRIPTION
FM	FME adapter to mini-UHF plug



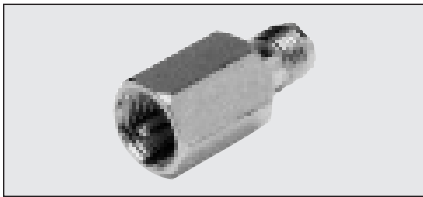
MODEL	DESCRIPTION
FN	FME adapter to N plug



MODEL	DESCRIPTION
FP	FME adapter to UHF plug



MODEL	DESCRIPTION
FSM	FME adapter to SMA plug



MODEL	DESCRIPTION
FSF	FME adapter to SMA jack

PARTS/ACCESSORIES



MODEL	DESCRIPTION
6 x 32	Set Screws
8 x 32	Set Screws



MODEL	DESCRIPTION
A4	BSA/BA/SO-239 to NMO mount adapter



MODEL	DESCRIPTION
BA	Bulkhead mount adapter with hardware



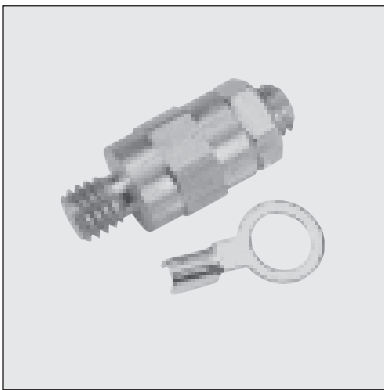
MODEL	DESCRIPTION
BAHEXNUT	Hex nut for BA



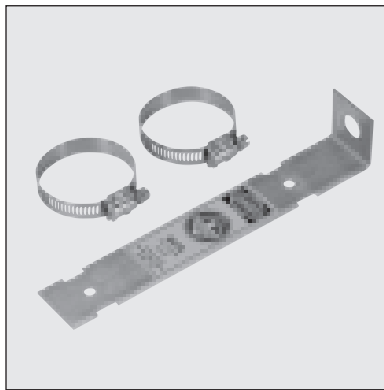
MODEL	DESCRIPTION
BALL1B	Black teardrop rod tip for W490, W540 tapered rods
BALL2B	Black teardrop rod tip for Q and NMOQ antennas
BALL3B	Black teardrop rod tip for .100 diameter non-tapered rods
BALL4	Rod tip WBQ800 antennas



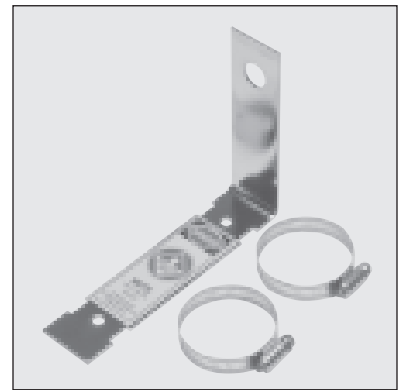
MODEL	DESCRIPTION
BANOHardware	Bulkhead mount adapter without hardware



MODEL	DESCRIPTION
BATTBOLT	Battery bolt with terminals, 3/8" ring leads



MODEL	DESCRIPTION
FB2BRACKET	Mounting bracket and hardware for FB2 series



MODEL	DESCRIPTION
FB3BRACKET	Mounting bracket and hardware for blade and round FB antennas

NOTE: Antennas are not to scale

1 800 ANTENNA (268-3662)

PARTS/ACCESSORIES



MODEL	DESCRIPTION
GROMMETS	Qty 100 plastic grommet secures/centers coax, 3/4" hole



MODEL	DESCRIPTION
HP34	Plastic hole plug for 3/4" hole
HP38	Plastic hole plug for 3/8" hole



MODEL	DESCRIPTION
HS1	3/4" hole saw fits 3/8" or larger drills



MODEL	DESCRIPTION
HSBLADE	Replacemeng blades for HS1



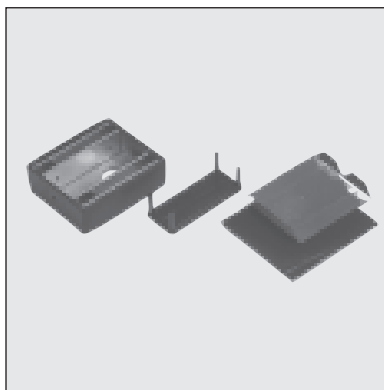
MODEL	DESCRIPTION
KGREINSTALL	KG glassmount reinstallation kit die cut tape



MODEL	DESCRIPTION
KGREINSTALLDC	KG glass mount reinstallation kit die cut tape



MODEL	DESCRIPTION
KGSWIVEL.073	KG swivel mount assembly, .073 dia
KGSWIVEL.100	KG swivel mount assembly, .100 dia



MODEL	DESCRIPTION
MM34	Rectangular mag mount housing, 3/4" hole



MODEL	DESCRIPTION
NMOBRASSRING	Nickel plated brass ring for NMO and NMOHF mounts

PARTS/ACCESSORIES



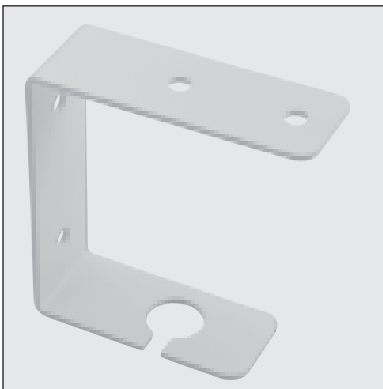
MODEL	DESCRIPTION
NMOCAPB	Rain cap for NMO mount



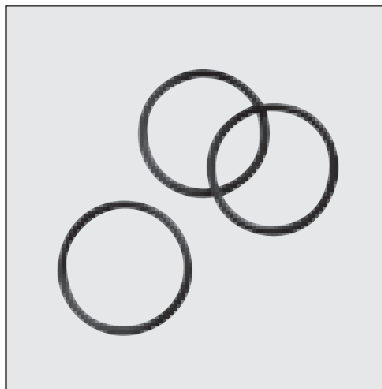
MODEL	DESCRIPTION
HFCENTERCONTACT	NMOHF Center Contacts and Insulators - 10 each



MODEL	DESCRIPTION
NMOTEST1	Test adapter for NMO mount



MODEL	DESCRIPTION
OCBRACKET	3" Tall bracket for ceiling or wall mount, Cool Grey



MODEL	DESCRIPTION
OLMNT	O ring for LM mount
ONMOANT	O ring for NMO antennas/bases
ONMOMNT	O ring for NMO mount
OPOMNT	O ring for PO mount



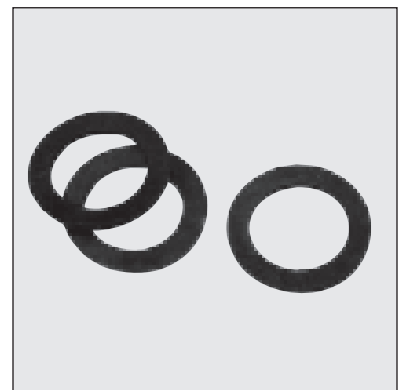
MODEL	DESCRIPTION
QCONE.073	Chrome Q cone / Q base, .073 dia.
QCONE.100	Chrome Q cone / Q base, .100 dia.
QCONE.125	Chrome Q cone / Q base, .125 dia.



MODEL	DESCRIPTION
QCONE.073B	Black Q cone / Q base, .073 dia.
QCONE.100B	Black Q cone / Q base, .100 dia.
QCONE.125B	Black Q cone / Q base, .125 dia.



MODEL	DESCRIPTION
RGFB1ANT	Rubber gaskets for FBI antenna



MODEL	DESCRIPTION
RGNMOANT	Rubber gasket for NMO coil/bases
RGPOMNT	Rubber gasket for PO mounts

NOTE: Antennas are not to scale

1 800 ANTENNA (268-3662)

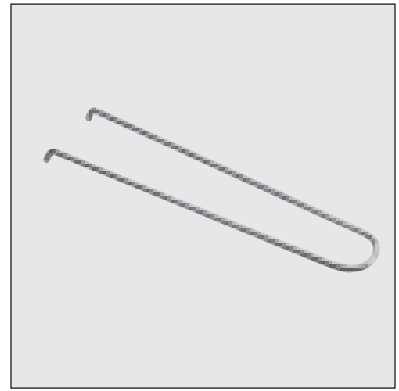
PARTS/ACCESSORIES



MODEL RGOMANT
DESCRIPTION Rubber gasket for OM bases



MODEL RGSS
DESCRIPTION Rubber SuperSeal gasket for MakroBlend® coils / bases



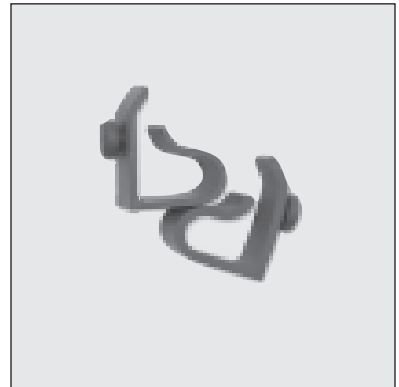
MODEL SPANNER
DESCRIPTION Spanner wrench for PO and NMOK mounts



MODEL SPRING
DESCRIPTION Chrome shock spring



MODEL SPRINGB
DESCRIPTION Black shock spring



MODEL WACLIP
DESCRIPTION Mounting clips for WA700/2700 Series - 2 per package



MODEL WASUCTIONCUP
DESCRIPTION Suction cup mounts for WA700/2700 Series - 2 per package



MODEL YAGIKITHD
DESCRIPTION Mounting hardware for 2 1/2" pipe for YA3, YA5 and YA6 antennas

COAXIAL CABLES

Coax Types/Part Numbers



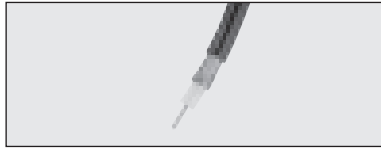
RG-174 - Small Diameter Coax

RG-174 is the industry standard for applications requiring a small diameter, highly flexible coax. Frequently used in mobile mag mount applications. Subject to higher losses at higher frequencies. Good performance for environmental variations but lower in overall ruggedness.

Recommended Applications

Mobile/Portable less than 900 MHz where flexibility and small diameter is important.

Larsen Part Number: RG-174
Stocking Lengths: 1000'/Spool
Cut to order



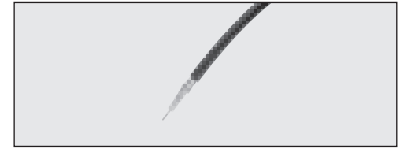
RG-213 - Stranded Bare Braid - Mil Spec QPI

This RG-8-sized cable uses a stranded center conductor with a polyethylene dielectric and PVC jacket. Built to Mil Specs this cable is used in all Larsen UHF/VHF products targeted for outdoor installation.

Recommended Applications

For lower frequency applications requiring high ruggedness.

Larsen Part Number: RG-213
Stocking Lengths: 500' or
1000'/Spool
Cut to order



RG-58U - Low Loss Dual Shield with Solid Center Conductor (UD)

This is Larsen's premium coax for 800 and 900 MHz applications. The solid center conductor (20 AWG) is easy to use with all connectors. Digital applications benefit from the 100% Duofoil aluminum shield. The shield is not glued to the dielectric making it easier to peel back for connector installation. The braid is 95% coverage. This cable is standard for most mounting kits over 800 MHz and can be special ordered with other frequencies. Uses standard RG-58 connectors.

Recommended Applications

For all applications at 800 MHz and above

Larsen Part Number: UD Coax
Stocking Lengths: 1000'/Spool
Cut to order



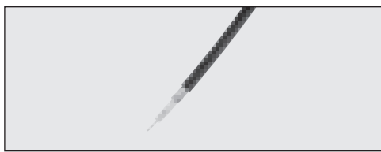
RG-58A/U - CX Standard Coax

The industry standard in quality, value-priced coax. Stranded center conductor offers good flexibility and long-life under most conditions. Not typically recommended for applications above 512 MHz due to higher losses. Uses standard RG-58 connectors.

Recommended Applications

General applications under 512 MHz. First choice for value priced coax.

Larsen Part Number: CX Coax
Stocking Lengths: 1000'/Spool
Cut to order



RG-58A/U - "Digi-Shield"[™] Low Loss Braided Center

Employs two shields, consisting of a full aluminum/mylar wrap covered by a braid. This combination of shields, plus low-loss dielectric material and stranded center conductor makes an excellent choice for mobile applications. Performance features include low-loss and high flexibility. Uses standard RG-58 connectors.

Recommended Applications

Higher performance applications where lower loss and flexibility are important. Recommended for applications above 800 MHz.

Larsen Part Number: DS Coax
Stocking Lengths: 1000'/Spool
Cut to order

COAXIAL CABLES

Coax Specification Comparison

Technical Characteristics of Insulation and Jacket Compounds

PVC

Sometimes referred to as vinyl or polyvinyl chloride. Extremely high or low temperature properties cannot be found in one formulation. Certain formulations may have -55° C to +105° C rating. Other common vinyls may have -20° C to +60° C. There are many formulations for the variety of different applications. The many varieties of PVC also differ in pliability and electrical properties. The price range can vary accordingly. Typical dielectric constant values can vary from 3.5 to 6.5.

POLYETHYLENE (SOLID AND FOAM)

A very good insulation in terms of electrical properties. Low dielectric constant, a stable dielectric constant over all frequencies, very high insulation resistance. In terms of flexibility, polyethylene can be rated stiff to very hard, depending on molecular weight and density — low-density being the most flexible, and high-density, high-molecular weight formulation being very hard. Moisture resistance is rated excellent. Correct Brown and Black formulations have excellent weather resistance. The dielectric constant is 2.3 for solid insulation and 1.64 for foam designs. Flame retardant formulations are available with dielectric constants ranging from about 1.7 for foam flame retardant to 2.58 solid flame retardant polyethylene.

TEFLON

This material has excellent electrical properties, temperature range and chemical resistance. It is not suitable where subjected to nuclear radiation and does not have good high voltage characteristics. FEP Teflon is extrudable in a manner similar to PVC and polyethylene. This means long wire and cable lengths are available. TFE Teflon is extrudable in hydraulic ram-type process. Lengths are limited due to amount of material in the ram, thickness of the insulation and preform size. TFE must be extruded over a silver- or nickel-coated wire. The nickel- and silver-coated designs are rated 260° C and 200° C maximum, respectively. The cost of Teflon is approximately 8 to 10 times more per pound than PVC compounds.

TYPE CATEGORY	LARSEN PART#	SUPPLIER	BELDEN PART#	DESCRIPTION	STANDARD LENGTH (FT)	WEIGHT (1000 LBS)	AWG STRANDING	WIRE DIAMETER
RG-174	RG174	Belden	8216	26 Solid Foil/Braid-Poly-Miniature Cable OD.054	1000	9	26	0.019 Bare Copper
RG-316	RG316	Belden	83284	26 Stranded Braid/Braid TEF Teflon	500/1000	10.5	26	0.020 Silver Coated Copper Covered Steel
RG-58A/U	CX	Belden	YR27132	20 Stranded Braid/Poly	1000	24	20	0.035 Tinned Copper
RG-58/U	UD	Belden	YR29741	20 Solid Foil/Braid-Poly-Low Loss-2500 MHz	1000	25	20 (solid)	Bare Copper
RG-58A/U	DS	Belden	YR22688	20 Stranded Foil/Braid-Low Loss	1000	21.6	20	0.037 Tinned Copper
RG-58/U	DT	Belden	YR29777	20 Solid Bare-Teflon	1000	30	20	0.031 BC
RG-213	RG213	Belden	8267	13 Stranded Bare Braid-Poly-Mil Spec Q.P.I.	500/1000	111.1	13	0.089 Bare Copper Covered Steel

COAXIAL CABLES

Comparative Properties of Insulation and Jacket

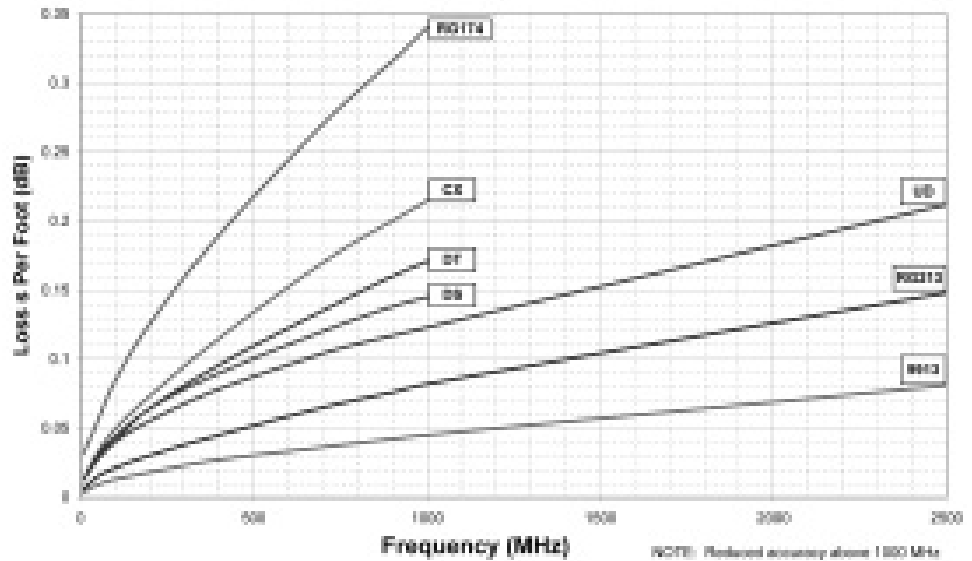
PVC Low-density Polyethylene		
Oxidation Resistance	E	E
Heat Resistance	G-E	G
Oil Resistance	F	G-E
Low Temperature Flexibility	P-G	E
Weather, Sun Resistance	G-E	E
Ozone Resistance	E	E
Abrasion Resistance	F-G	G
Electrical Properties	F-G	E
Flame Resistance	E	P
Nuclear Radiation Resistance	F	G-E
Water Resistance	F-G	E
Acid Resistance	G-E	G-E
Alkali Resistance	G-E	G-E
Gasoline, Kerosene, Etc. (Aliphatic Hydrocarbons) Resistance	P	G-E
Benzol, Toluol, Etc., (Aromatic Hydrocarbons) Resistance	P-F	P
Degreaser Solvents (Halogenated Hydrocarbons) Resistance	P-F	G
Alcohol Resistance	G-E	E
Underground Burial	P-G	G

P = Poor F = Fair G = Good E = Excellent

Nominal Temperature Range/Insulating and Jacketing Compounds

Compound	Normal Low	Normal High	Special Low	Special High
Polyethylene - Solid	-60° C	80° C	--	--
Polyethylene - Foam	-60° C	80° C	--	--
FEP Teflon	-70° C	200° C	--	--
PVC	-20° C	80° C	-55° C	105° C
TFE Teflon	-70° C	260° C	--	--

Cable Attenuation



NOMINAL DC RESISTANCE (OHMS/1000')	INSULATION	INSULATOR NOMINAL CORE O.D. (IN)	NOMINAL O.D. (INS)	SHIELD MATERIAL	SHIELD COVERAGE	SHIELD NOMINAL RESISTANCE	JACKET MATERIAL	NOMINAL IMPEDANCE (OHMS)	NOMINAL VEL OF PROP	NOMINAL CAPACITANCE PF/FT
9.7	POLYETHYLENE	0.05	0.11	Tinned Copper Braid	90%	10.3	Black PVC	50	66%	30.8a
84.1	TFE Teflon	0.06	0.098	Silver Coated Copper Braid	95%	6.5	White FEP	50	69.5%	29.2
21.5	Solid Polyethylene	0.11	0.193	Tinned Copper Braid	95%	4.1	Black PVC	50	66%	30.8
12.6	Polyethylene	0.116	0.195	100% Duofoil & 95 Tinned Copper Braid	100%	3.8	Black PVC	50	66%	30.9
14.5	Foam Polyethylene	0.114	0.198	Duofoil + 85% Tinned Copper Braid	100%	5.6	Black PVC	50	78%	26
15.5	Solid FEP Teflon	0.112	0.19	Tinned Copper Braid	95%	4.4	Black PVC	53.5 ± 2.5	69.5%	28.5
1.7	Polyethylene	0.285	0.405	Copper Braid	97%	1.2	Black PVC	50	66%	30.8

NOTE: Antennas are not to scale

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