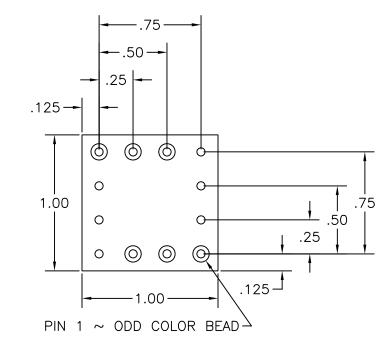
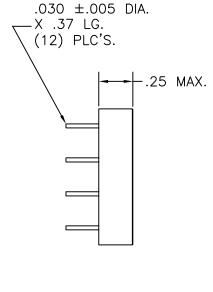
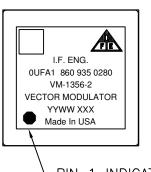
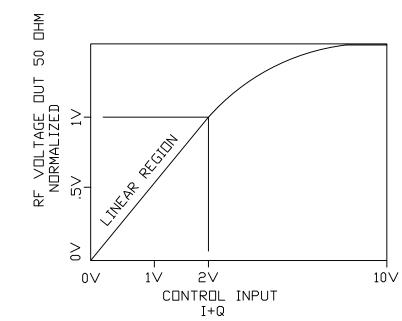
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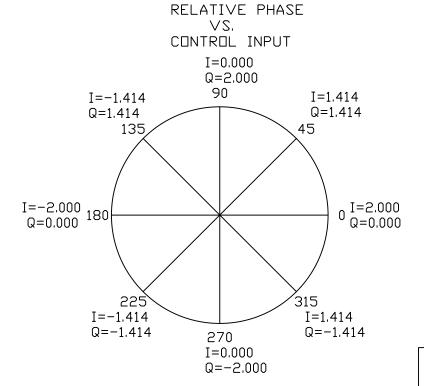
PIN NO.	FUNCTION
1	RF INPUT
2	Q C⊡NTR⊡L ±10∨ DC
3	-15.000 ∨ DC BIAS
7	RF DUTPUT
8	+15.000 V DC BIAS
9	I C⊡NTR⊡L ±10∨ DC
4,5,6,10 11,12	GROUND











$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		YYWW XXX							
PIN 1 INDICATOR   INSERTION LOSS (dB) NOM. SATURATED   INSERTION LOSS (dB) NOM. SATURATED   IO     SATURATED   VIP+Q*=10V   10     LINEAR RANGE   VIP+Q*=2V   15     AMPLITUDE BALANCE (dB) MAX.   ±1.0     VIP+Q*=2V   ATTENUATION RANGE (dB) 0-40     NULL DEPTH (dB) MIN   50     NULL DEFTSET (mv) MAX.   75     PHASE ACCURACY (DEG) MAX.   ±4.0*     PHASE ACCURACY (DEG) MAX.   ±4.0*     PHASE ACCURACY (DEC) MAX.   ±15.000 @ 25 ma MAX.     CONTROL PORT (DC) COUPLED)   FREQUNCY RANGE     PRASE VOLTAGES (VDC)   ±15.000 @ 25 ma MAX.     CONTROL PORT (DC) COUPLED)   FREQUNCY RANGE     VSWR MAX.   1.81     IMPEDANCE (DHMS)   50     DEPERATING TEMP.   ±10V     VSWR MAX.   1.81     IMPEDANCE COMMS   50     DEPERATING TEMP.   ±10 TO ±45°C     MAD   1/22/19     JU 8/14/19   NOM. 8/14/19     INSERTING PRACTICES PER ASME Y14.100   MG APPD DATE     DIMATERIAL: SEE NOTE 1   EXX ±.01   XXX ±.005     MATERIAL: SEE NOTE 1   ELSS 6/14/19		Made In USA					13.56±100KHz		
SATURATED		<u> </u>			RF INPUT	POWER (dBM) NOM,	0		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	PIN 1 INDICATOR				SATURA	ATED $\sqrt{I^2+Q^2}=1$			
NULL DEPTH (dB) MIN   50     NULL DFFSET (mv) MAX.   75     PHASE ACCURACY (DEG) MAX.   ±4.0°     PHASE DEVIATION FROM 25°C   ±1.5°     NOMINAL CONDITION $\sqrt{1^e+q^e}=2v$ BIAS VOLTAGES (VDC)   ±15.000 @ 25 ma MAX.     CONTROL PORT (DC COUPLED)   FREQUNCY RANGE     FREQUNCY RANGE   DC-30 KHz     CONTROL PORT (DC COUPLED)   FREQUNCY RANGE     FREQUNCY RANGE   DC-30 KHz     CONTROL PORT (DC COUPLED)   FREQUNCY RANGE     FREQUNCY RANGE   DC-30 KHz     CONTROL PORT (DC COUPLED)   FREQUNCY RANGE     FREQUNCY RANGE   MAX.     UNLESS OTHERWISE SPECIFIED   DRAWN     UNLESS OTHERWISE SPECIFIED   ENGRG APPD DATE     DRAWING PRACTICES PER ASME Y14.100   MFG APPD DATE     MATERIAL: SEE NOTE 1   EJS 8/14/19     MATERIAL: SEE NOTE 1   KELASED DATE     BIAS 8/14/19   SIZE CODE IDENT NO.   DRAWING NO.     RELEASED DATE   BREASED DATE							X. ±1.0		
NULL DFFSET (mv) MAX.   75     PHASE ACCURACY (DEG) MAX.   ±4.0°     PHASE DEVIATION FROM 25°C   ±1.5°     NDMINAL CONDITION $\sqrt{I^2+Q^2}=2V$ BIAS VOLTAGES (VDC)   ±15.000 @ 25 ma MAX.     CONTROL PORT (DC COUPLED)   FREQUNCY RANGE     CONTROL PORT (DC COUPLED)   DC-30 KHz     FREQUNCY RANGE   DC-30 KHz     CONTROL PARK   ±10V     LINEAR   ±2V @5ma dc max.     VSWR MAX.   1.81     IMPEDANCE (DHMS)   50     DPERATING TEMP.   +10 TD +45°C     MJD 1/22/19   JI AS/14/19     UNLESS OTHERWISE SPECIFIED   ENGRG APPD DATE     MMB 8/14/19   TITLE     DRAWIN PRACTICES PER ASME Y14.100   MG APPD DATE     MATERIAL: SEE NOTE 1   EJS 8/14/19     MATERIAL: SEE NOTE 1   EJS 8/14/19     SIZE   CODE IDENT NO.   DRAWING NO.     OUTFA1   350-046-181					ATTENUATION RANGE (dB) 0-40		0-40		
PHASE ACCURACY (DEG) MAX.   ±4.0°     PHASE DEVIATION FROM 25°C   ±1.5°     NDMINAL CONDITION $\sqrt{1^2+Q^2}=21^2+Q$					NULL DEPTH (dB) MIN		50		
PHASE DEVIATION FROM 25°C   ±1.5°     NDMINAL CONDITION   \$\$\sqrt{1^2+Q^2=2V}\$     BIAS VOLTAGES (VDC)   ±15.000 @ 25 ma MAX.     CONTROL PORT (DC COUPLED) FREQUNCY RANGE CONTROL PORT (DC COUPLED) FREQUNCY RANGE LINEAR   DC-30 KHz ±10V ±10V LINEAR     VSVR MAX.   1.8:1     IMPEDANCE (DHMS)   50     DPERATING TEMP.   ±10 TO ±45°C     MJD 1/22/19 DIMENSIONS MEASURED IN INCHES DRAWING PRACTICES PER ASME Y14.100 TOLERANCES   DRAWN 8/14/19 JU 8/14/19 JU 8/14/					NULL OFFSET (mv) MAX. 75		75		
N□MINAL C□NDITI□N   √I <sup>2</sup> +Q <sup>2</sup> =2∨     BIAS V□LTAGES (VDC)   ±15.000 @ 25 ma MAX.     C□NTR□L P□RT (DC C□UPLED)   FREQUNCY RANGE   DC-30 KHz     FREQUNCY RANGE   DC-30 KHz     C□NTR□L P□RT (DC C□UPLED)   FREQUNCY RANGE   DC-30 KHz     FREQUNCY RANGE   DC-30 KHz     C□NTR□L P□RT (DC C□UPLED)   FREQUNCY RANGE   DC-30 KHz     VSWR MAX.   ±10V     IMPEDANCE (□HMS)   50     □PERATING TEMP.   ±10 T□ +45°C     IMPEDANCE SPECIFIED   DRAWN DATE     MJD   1/22/19     UNLESS OTHERWISE SPECIFIED   ENGRG APPD DATE     DRAWING PRACTICES PER ASME Y14.100   MFG APPD DATE     MG APPD   DATE     OUTLINE DRAWING   VM-1356-2     XX ±.01   .XX ±.005     MATERIAL: SEE NOTE 1   EJS     RELEASED   DATE     B   OUTFA1     350-046-181   -									
BIAS VOLTAGES (VDC)   ±15.000 @ 25 ma MAX.     BIAS VOLTAGES (VDC)   ±15.000 @ 25 ma MAX.     CONTROL PORT (DC COUPLED) FREQUNCY RANGE CONTROL RANGE MAX.   DC-30 KHz ±10V LINEAR     VSWR MAX.   1.8:1     IMPEDANCE (OHMS)   50     OPERATING TEMP.   +10 TO +45°C     MJD 1/22/19 UNLESS OTHERWISE SPECIFIED DIMENSIONS MEASURED IN INCHES DRAWING PRACTICES PER ASME Y14.100   DRAWN DATE MJG 1/22/19 MFG APPD DATE AM 8/14/19 MFG APPD DATE JU 8/14/19   TITLE OUTLINE DRAWING VM - 1356 - 2     TOLERANCES   ANGLES ±1/2' JU 8/14/19   JU 8/14/19 VM - 1356 - 2   DRAWING NO.     MATERIAL: SEE NOTE 1   EJS 8/14/19 RELEASED DATE   SIZE   CODE IDENT NO.   DRAWING NO.   REV. 350 - 046 - 181					PHASE DE	VIATION FROM 25°C			
DRAWN   DATE     WILESS OTHERWISE SPECIFIED   DRAWN     DRAWN G PRACTICES PER ASME Y14.100     TOLERANCES     MATERIAL:   SEE NOTE 1     MATERIAL:   SEE NOTE 1     RELEASED   DATE     MATERIAL:   SEE NOTE 1				NOMINAL CONDITION		$\sqrt{I^2+Q^2}=2\vee$			
FREQUNCY RANGE CONTROL RANGE MAX. DC-30 KHz ±10V   VSWR MAX. LINEAR   VSWR MAX. 1.8:1   IMPEDANCE (UHMS) 50   UPERATING TEMP. +10 TU +45°C   MJD 1/22/19   UNLESS OTHERWISE SPECIFIED DIMENSIONS MEASURED IN INCHES DRAWING PRACTICES PER ASME Y14.100 ENGRG APPD DATE AM A8/14/19   MFG APPD DATE JU 8/14/19   MATERIAL: SEE NOTE 1 EJS 8/14/19 RELEASED SIZE CODE IDENT NO. DRAWING NO. REV. 350-046-181				BIAS VOLTAGES (VDC) ±15.000 @		±15.000 @ 25 ma MA	ŧΧ.		
IMPEDANCE   CIHMS>   50     IMPEDANCE   CIHMS>   50     Impedance   CIHMS   Fill     Impedance   CIHMS   CIHMS     Impedances   ANGLES   CIHMS				FREQUNCY RANGE CONTROL RANGE MAX.		DC-30 KHz ±10∨	nax.		
Image: Decay of the projection					VSWR MAX.		1.8:1	1.8:1	
Image: bit work in the projectionDRAWN MJDDATE MJDImage: bit work in the projectionUNLESS OTHERWISE SPECIFIED DIMENSIONS MEASURED IN INCHES DRAWING PRACTICES PER ASME Y14.100ENGRG APPD AMDATE AMBIT In the projectionTOLERANCES TOLERANCES ANGLES ±1/2'MFG APPD JUDATE MFG APPD JUMFG APPD APPD AN 8/14/19DATE OUTLINE VM-1356-2MATERIAL: SEE NOTE 1EJS8/14/19 RELEASEDSIZE DATE BCODE IDENT NO. OUTFA1DRAWING NO. 350-046-181					IMPEDANCE (OHMS)		50		
Image: Dimension of the relation of the relatio				OPERATING	TEMP.	+10 T🛛 +45°C			
DIMENSIONS MEASURED IN INCHES   AM   8/14/19     DRAWING PRACTICES PER ASME Y14.100   MFG APPD   DATE     TOLERANCES   ANGLES ±1/2*   JU   8/14/19     .XX ±.01   .XXX ±.005   QA APPD   DATE     MATERIAL: SEE NOTE 1   EJS   8/14/19   SIZE   CODE IDENT NO.   DRAWING NO.     RELEASED   DATE   B   OUTLANDENT NO.   DRAWING NO.   REV.	-		D ANGLE PROJECTION MJD		1/22/19				
DRAWING PRACTICES PER ASME Y14.100   MFG APPD   DATE     TOLERANCES   ANGLES ±1/2*   JU   8/14/19     .XX ±.01   .XXX ±.005   QA APPD   DATE     MATERIAL: SEE NOTE 1   EJS   8/14/19   SIZE   CODE IDENT NO.   DRAWING NO.     RELEASED   DATE   B   OUTLINE   DRAWING NO.   REV.									
TOLERANCES   ANGLES ±1/2*   JU   8/14/19   VM-1356-2     .XX ±.01   .XXX ±.005   QA APPD   DATE   VM-1356-2     MATERIAL: SEE NOTE 1   EJS   8/14/19   SIZE   CODE IDENT NO.   DRAWING NO.     RELEASED   DATE   B   OUFA1   350-046-181   -			, ,						
.xx ±.01 .xxx ±.005 QA APPD DATE VM-1356-2   MATERIAL: SEE NOTE 1 EJS 8/14/19 SIZE CODE IDENT NO. DRAWING NO. REV.   RELEASED DATE B OUFA1 350-046-181 -	-	TOLERANCES	ANGLES ±1/2						
RELEASED DATE B OUFA1 350-046-181 -	.	.XX ±.01	,			VM-	-1356-2		
		MATERIAL:	SEE NOTE 1		, ,				
		FINISH: SI	EE NOTE 2					1	

## NOTES:

- 1. MATERIAL:
- HEADER, PINS & COVER: KOVAR
- 2. FINISH: HEADER & PINS: GOLD PLATE PER MIL-G-45204 TYPE 1, CLASS 1. COVER: NICKEL PLATE PER QQ-N-290A3
- 3. LABEL: WHERE XXXX IS DATECODE, YYY IS S/N4. SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE

	REVISION							
LTR.	DESCRIPTION	DATE	APPVL.					
_	ENG. RELEASED	8/14/19	MJD					

## MODULATOR, COMPLEX PHASOR/VECTOR

## ELECTRICAL SPECIFICATIONS