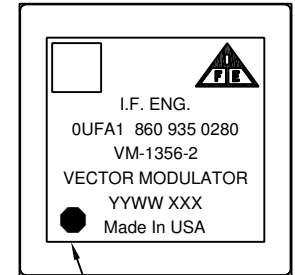
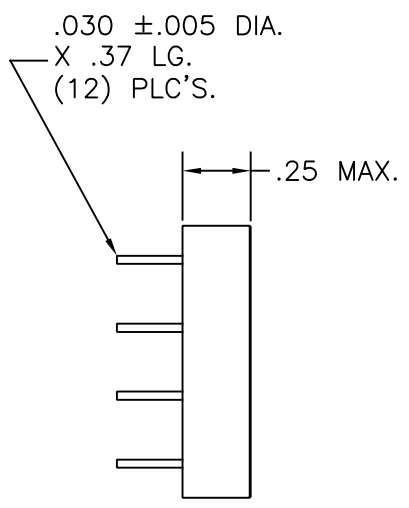
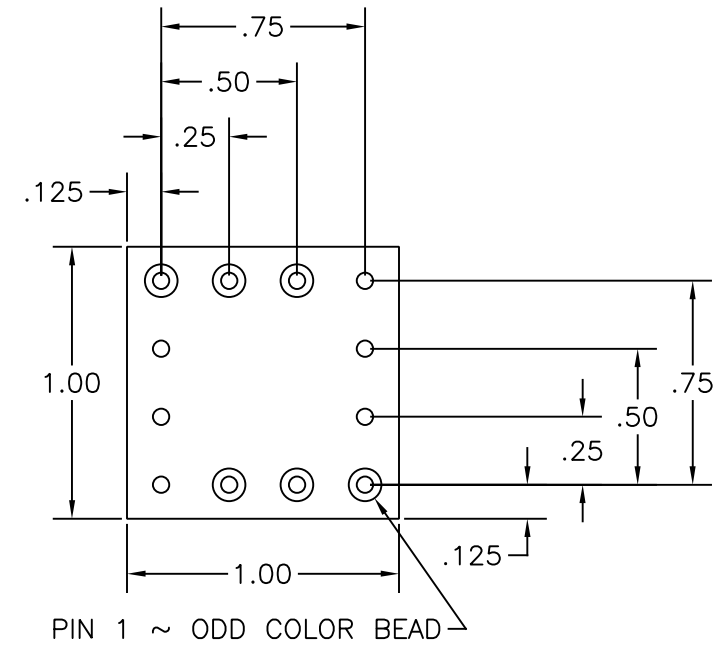


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PIN NO.	FUNCTION
1	RF INPUT
2	Q CONTROL ±10V DC
3	-15.000 V DC BIAS
7	RF OUTPUT
8	+15.000 V DC BIAS
9	I CONTROL ±10V DC
4,5,6,10 11,12	GROUND

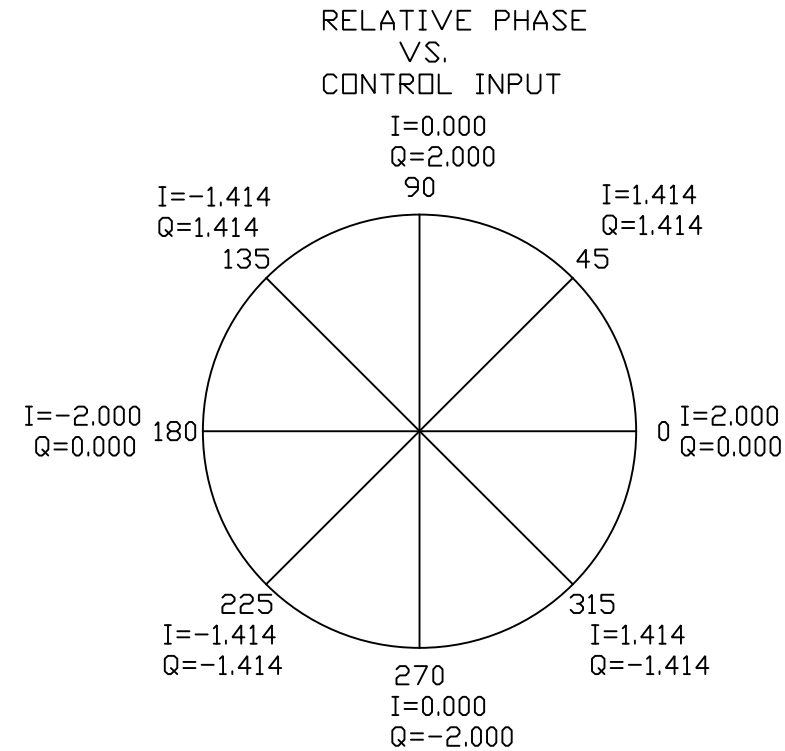
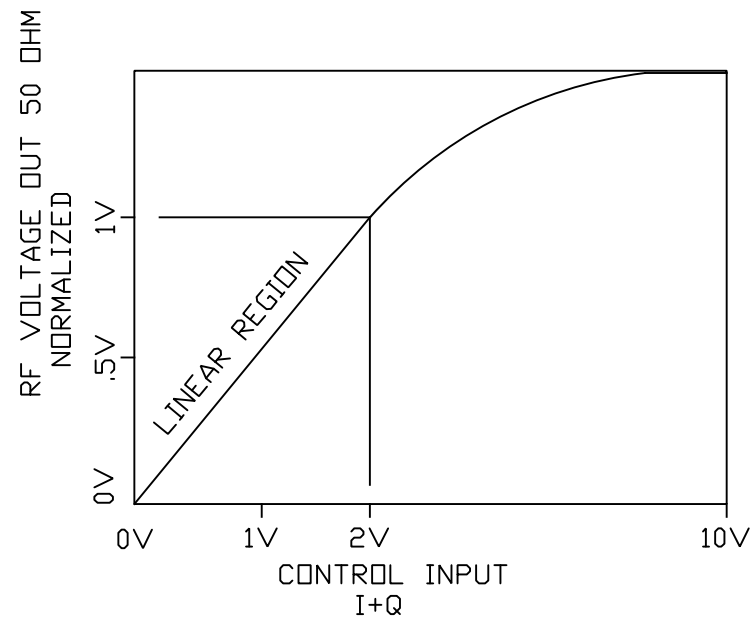
REVISION			
LTR.	DESCRIPTION	DATE	APPVL.
-	ENG. RELEASED	8/14/19	MJD



PIN 1 INDICATOR

MODULATOR, COMPLEX PHASOR/VECTOR
ELECTRICAL SPECIFICATIONS

FREQ. RANGE (MHz)	13.56±100KHz
RF INPUT POWER (dBm) NOM.	0
INSERTION LOSS (dB) NOM.	
SATURATED $\sqrt{I^2+Q^2}=10V$	10
LINEAR RANGE $\sqrt{I^2+Q^2}=2V$	15
AMPLITUDE BALANCE (dB) MAX.	±1.0
$\sqrt{I^2+Q^2}=2V$	
ATTENUATION RANGE (dB)	0-40
NULL DEPTH (dB) MIN	50
NULL OFFSET (mv) MAX.	75
PHASE ACCURACY (DEG) MAX.	±4.0°
PHASE DEVIATION FROM 25°C	±1.5°
NOMINAL CONDITION	$\sqrt{I^2+Q^2}=2V$
BIAS VOLTAGES (VDC)	±15.000 @ 25 ma MAX.
CONTROL PORT (DC COUPLED)	
FREQUENCY RANGE	DC-30 KHz
CONTROL RANGE MAX.	±10V
LINEAR	±2V @5ma dc max.
VSWR MAX.	1.8:1
IMPEDANCE (OHMS)	50
OPERATING TEMP.	+10 TO +45°C



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

THIRD ANGLE PROJECTION	DRAWN	DATE
	MJD	1/22/19
UNLESS OTHERWISE SPECIFIED DIMENSIONS MEASURED IN INCHES DRAWING PRACTICES PER ASME Y14.100	ENGRG APPD	DATE
	AM	8/14/19
TOLERANCES ANGLES ±1/2° .XX ±.01 .XXX ±.005	MFG APPD	DATE
	JU	8/14/19
MATERIAL: SEE NOTE 1	QA APPD	DATE
	EJS	8/14/19
FINISH: SEE NOTE 2	RELEASED	DATE
	MJD	8/14/19

I.F.E. ENGINEERING
3 FOSHAY ROAD, DUDLEY MA 01571

TITLE
OUTLINE DRAWING
VM-1356-2

SIZE	CODE IDENT NO.	DRAWING NO.	REV.
B	OUF A1	350-046-181	-

SCALE N/A SHEET 1 OF 1