

800 MHz – 2.0 GHz Coaxial Isolator, 2A3BAM-ROHS

Technical Data Sheet

2A3BAM-ROHS

FEATURES:

- Octave Bandwidth
- 800 - 2000 MHz
- 50 W CW Power Handling
- Coaxial Connectors
- Frequency Stable

APPLICATIONS:

- Wireless Communication
- Test Solutions
- Ground and airborne based Radar

DESCRIPTION:

For test and measurement applications REC has designed an octave band isolator covering 800 to 2000 MHz in a simple package with less than 1.00 dB loss and minimum 15 dB isolation intended for use in laboratory setups, RF test benches, and diagnostic equipment where accurate signal integrity is critical. Such applications demand components with predictable, stable performance across a wide frequency range covering common communication bands (cellular, wireless, radar test ranges).

The balance of broad coverage, low insertion loss, and reasonable isolation makes it a versatile tool for labs working with wireless systems, radar, or communication devices.

ELECTRICAL CHARACTERISTICS:

DESCRIPTION	MIN	TYP	MAX	UNITS
Frequency Range	800		2000	MHz
BW		1200		MHz
Isolation	13			dB
Insertion Loss			1.2	dB
Return Loss	14			dB
Impedance		50		Ω
Power Rating			50	W
Termination Power Rating			2	W
Operating Temperature	-40		+71	°C

MECHANICAL SPECIFICATIONS

SIZE

Length	3.50"
Width	3.50"
Height	1.10"
Weight	725 g
Connectors	SMA-F

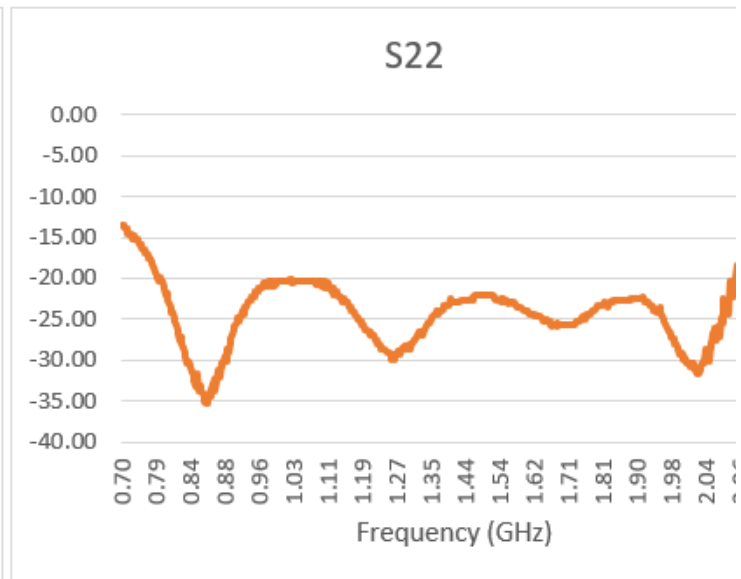
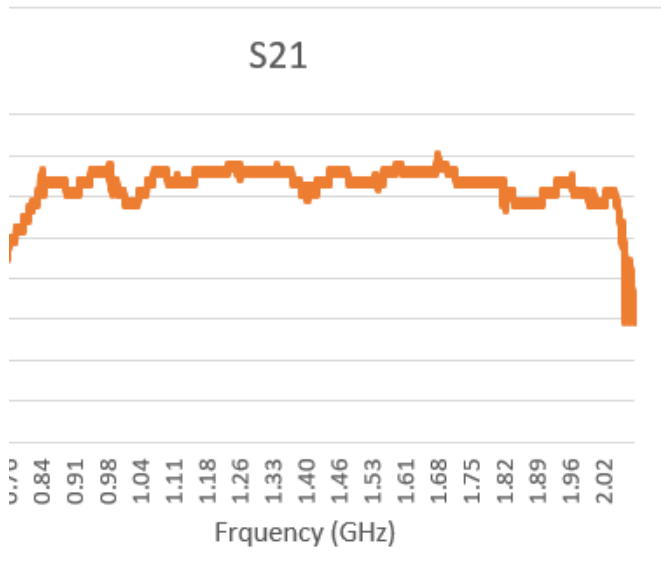
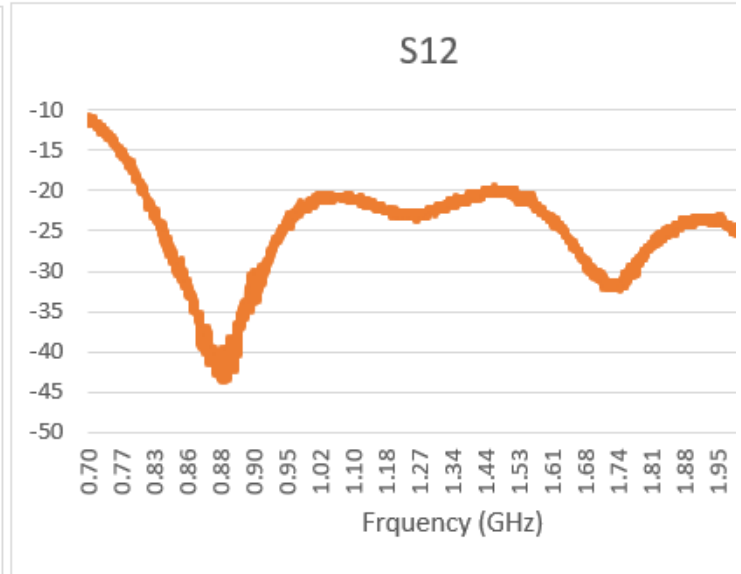
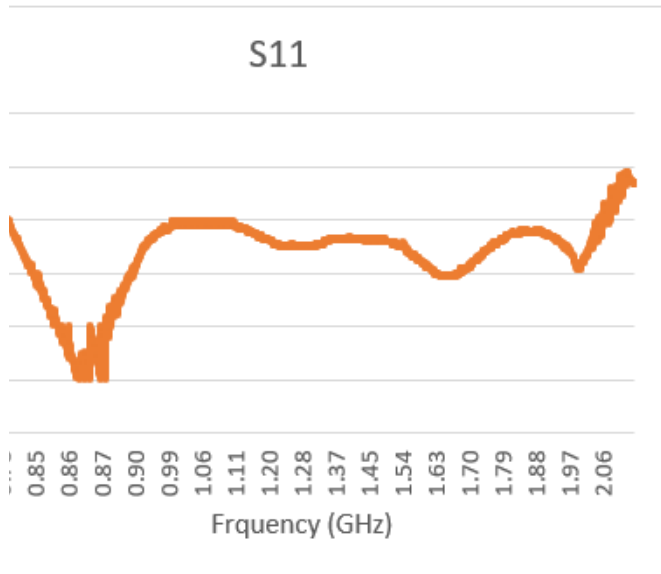
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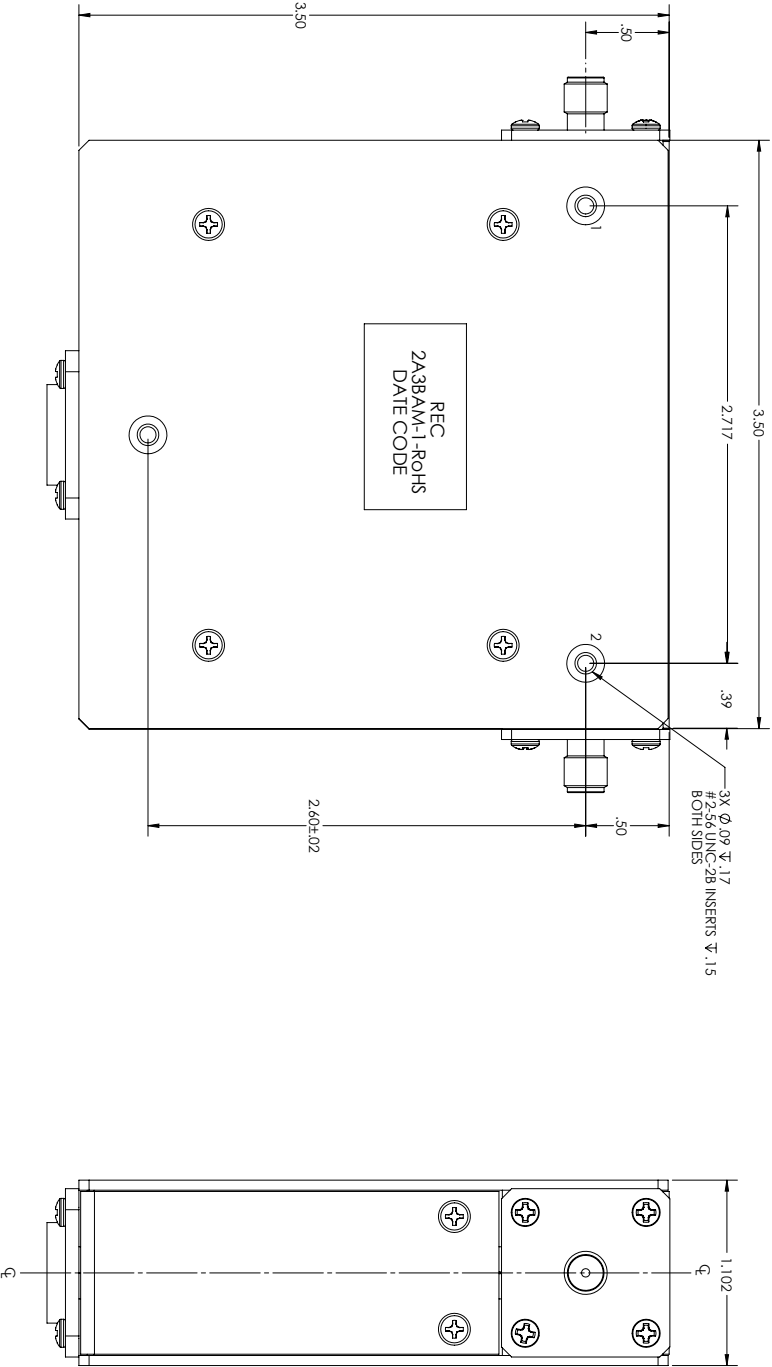
TYPICAL PERFORMANCE DATA:



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REVISIONS			
ZONE	REV.	ECO	DESCRIPTION
A	201	90198	DRAWING INITIATED
B	201	50250	ADDED 2-56 HELICOILS TO CUSTOMER MOUNTING HOLES
C	201	60060	REPLACED 22X 400-1-103 WITH 6X 400-1-104
D	201	60192	ADDED NOTE 3; ADDED ELECTROLES TO NOTE 2
			DATE
			APPROVED



ELECTRICAL CHARACTERISTICS

FREQUENCY RANGE	800 - 2000 MHz
ISOLATION (MIN)	13 dB
INSERTION LOSS(MAX)	1.2 dB
VSWR (MAX)	1.62 : 1
TERMINATION	1 WATT; 2WATTS CW
TEMPERATURE RANGE	+10°C TO +60°C
STORAGE TEMP	-40°C TO +71°C
WEIGHT, TYPICAL	725 GRAMS

- NOTES:
- CLOCKWISE ROTATION
 - FINISH: ELECTROLESS
 - NICKEL PLATE
 - MOUNTING HOLES ARE INSERTED HELICOILS

DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED			
TOLERANCES ON:	ANGLES	DECIMALS	ANGLES
X ± .02	± 1/2°	XX ± .01	
XXX ± .005			
UNLESS OTHERWISE SPECIFIED			
90° ALL OVER			
NOTE: THIS DWG INCORPORATES THIRD ANGLE PROJECTION			
DRAWN	CARRION	DATE	7/15/2015
CHECKED	ENG APPR	DATE	7/15/2015
FILE NAME:	FILE NAME:	FILE NAME:	FILE NAME:
CUSTOMER SPEC:	CUSTOMER SPEC:	CUSTOMER SPEC:	CUSTOMER SPEC:
MATERIAL:	MATERIAL:	MATERIAL:	MATERIAL:
FINISH:	FINISH:	FINISH:	FINISH:
WEIGHT: WEIGHT:	WEIGHT: WEIGHT:	WEIGHT: WEIGHT:	WEIGHT: WEIGHT:
PART NO: CAD DRAFTING	PART NO: CAD DRAFTING	PART NO: CAD DRAFTING	PART NO: CAD DRAFTING
USED ON:	USED ON:	USED ON:	USED ON:
DATE: 08/02/2015	DATE: 08/02/2015	DATE: 08/02/2015	DATE: 08/02/2015
SCALE: 1:5	SCALE: 1:5	SCALE: 1:5	SCALE: 1:5
WEIGHT:	WEIGHT:	WEIGHT:	WEIGHT:
SHEET 1 OF 3	SHEET 1 OF 3	SHEET 1 OF 3	SHEET 1 OF 3