

225 - 400 MHz Broad Band Coaxial Circulator

Technical Data Sheet

3A2BC/3A2BF

FEATURES:

- 56% Fractional Bandwidth
- 225 - 400 MHz
- 40 W CW Power Handling
- Isolator model available
- Temperature Stable

APPLICATIONS:

- Military Communication
- Tactical Radio
- Ground and airborne based Radar

DESCRIPTION:

Renaissance Electronics Corporation has developed a broadband ferrite based Circulator and Isolator series that covers the 225 to 400 MHz band covering military communication bands, tactical radios, and certain radar systems. Power Handling is available up to 40 W CW. This is a robust rating for both test environments and operational systems, ensuring reliability under sustained transmission. The robust units are designed for both airborne and ground applications and are available in both Circulator and Isolator forms.

ELECTRICAL CHARACTERISTICS:

DESCRIPTION	MIN	TYP	MAX	UNITS
Frequency Range	225		400	MHz
BW		175		MHz
Insertion Loss			0.9	dB
Return Loss	16			dB
Impedance		50		Ω
Power Rating			40	W
Operating Temperature	+25		+85	$^{\circ}\text{C}$

MECHANICAL SPECIFICATIONS

SIZE

Length	2.56"
Width	2.05"
Height	1.14"
Connectors	SMA-F

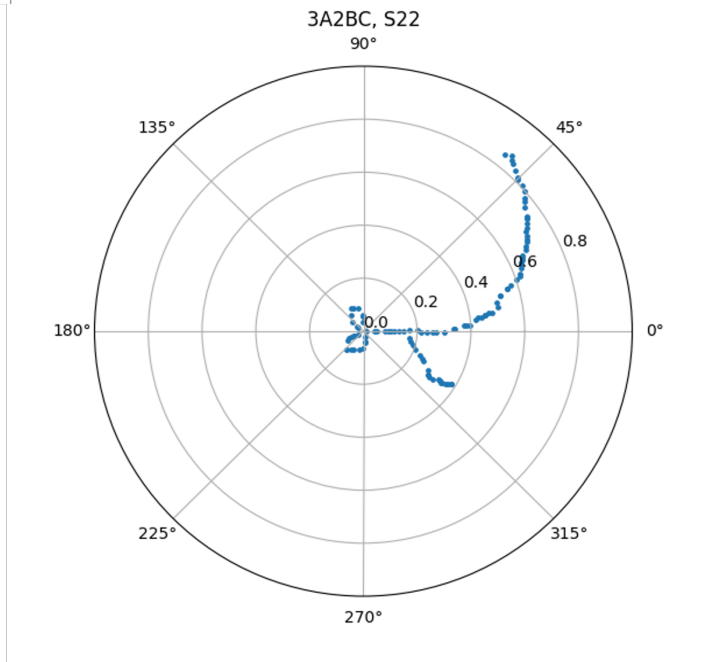
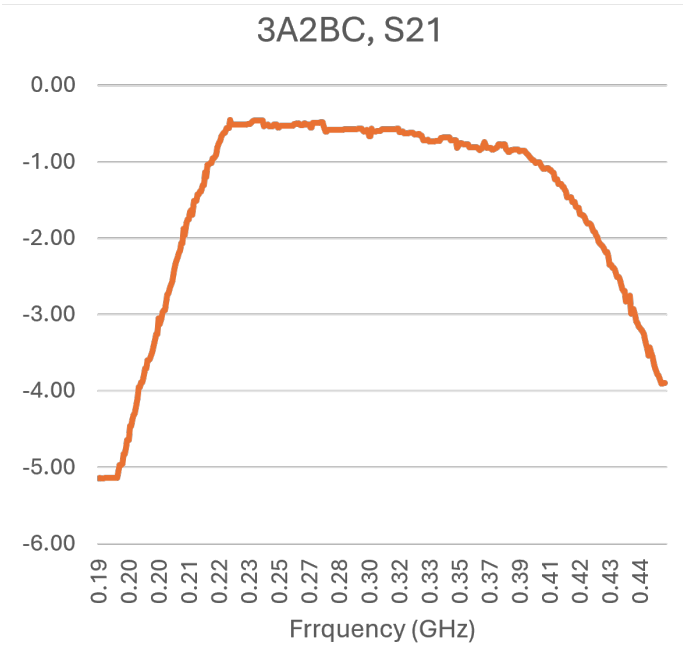
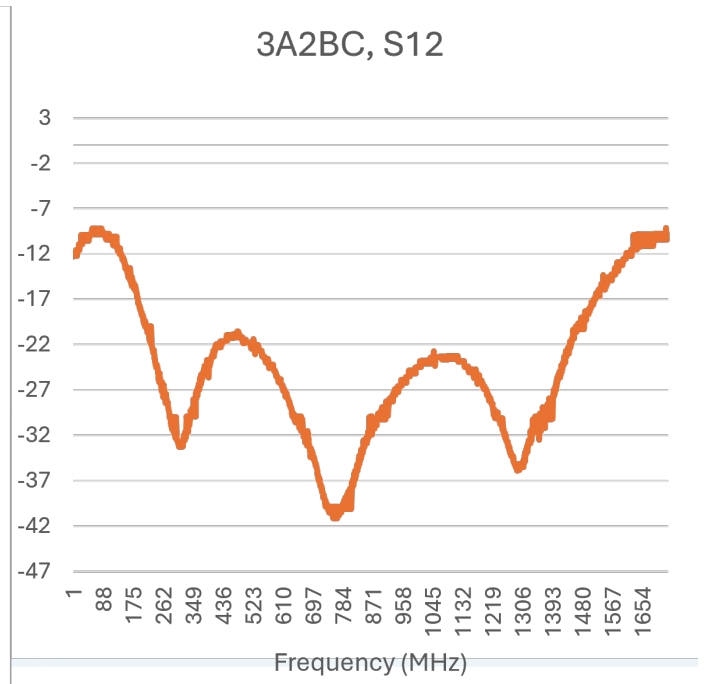
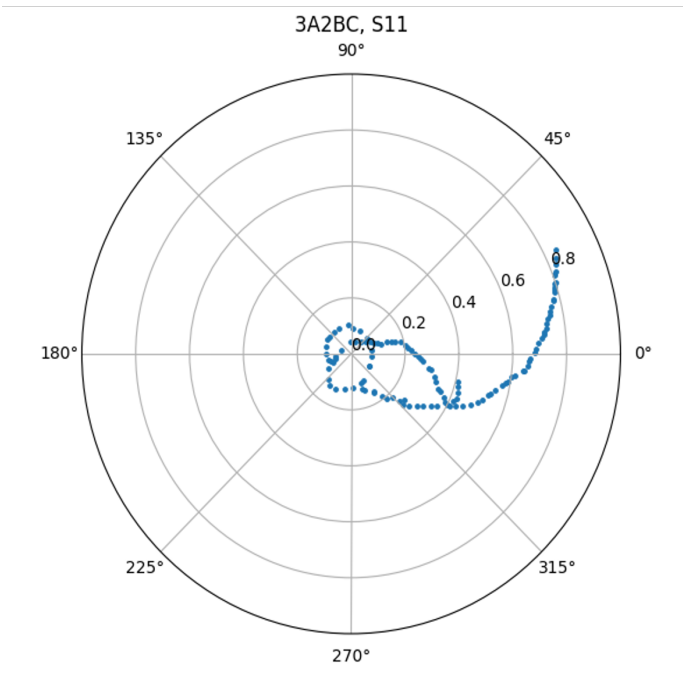
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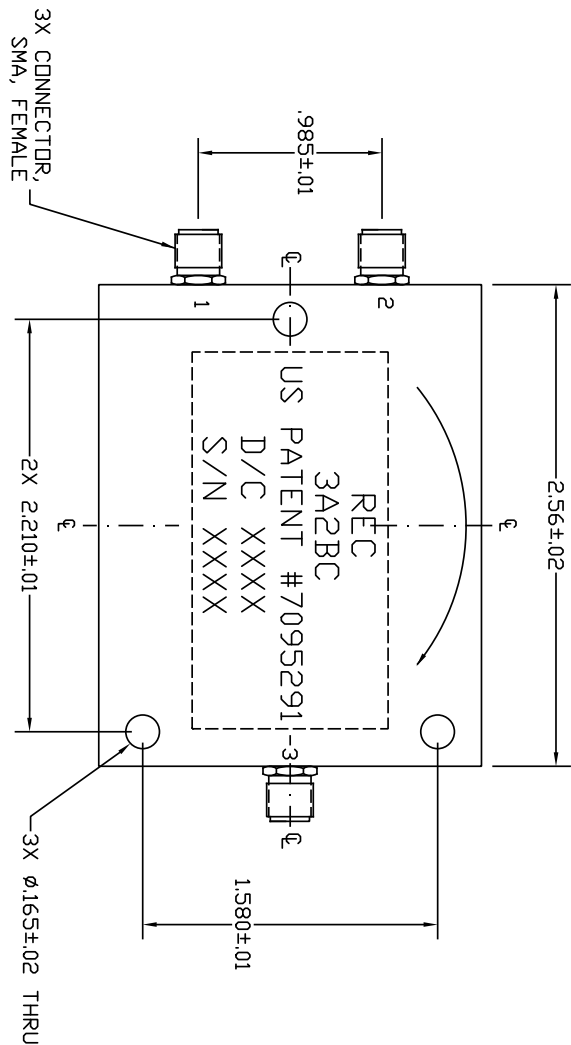
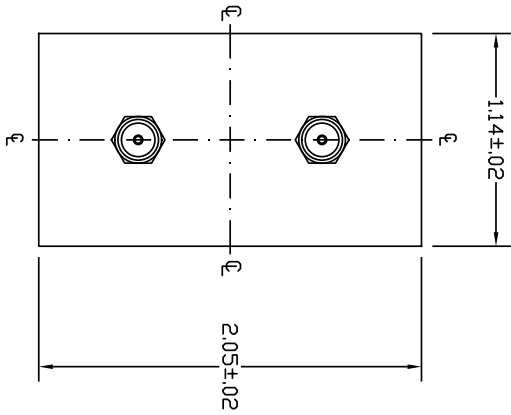
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TYPICAL PERFORMANCE DATA:



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This drawing shall be returned with quotation or at termination of manufacturing contract or on demand of REC whichever is first.



NOTES:

1. PROTECTED BY REC WITH US PATENT 7,095,291

ELECTRICAL CHARACTERISTICS:

FREQUENCY RANGE	0.225 - 0.400 GHz
ISOLATION (Min)	16 dB
INSERTION LOSS (Max)	0.9 dB
VSWR (Max)	1.40 : 1
POWER (CW)	40 Watts
TEMPERATURE RANGE	+25°C TD +85°C -40°C TD +24°C

U 20090048	REV & REV REVISION	02/20/09
D 20090048	INFORMATION ON PATENT ADDED	02/20/09
E 20090160	NOTE 1 REMOVED	06/24/09
F 20140004	2.56±.02 WAS 2.58±.02	01/08/14

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON		DRAWN M SALAFIA DATE 03/19/01	
DECIMALS	ANGLES	CHECKED	
X± .02	±1/2°	ENG. APVD A SRIVASTAVA 04/09/01	
.XXX± .01		MFG. APVD	
.XXX± .005		REC SPECIFICATION #	
UNLESS OTHERWISE SPECIFIED THIRD ANGLE PROJECTION		TITLE	
CIRCULATOR, COAXIAL		RENAISSANCE ELECTRONICS CORPORATION 12 LANCASTER COUNTY RD HARVARD, MA 01451	
SIZE	CAGE IDENT NO.	DRAWING NO.	