



PRODUCT DATA SHEET

AF9255

Werlatone® Low Pass, High Pass, and Band Pass Filters

- **Eliminate** instability of power amplifiers at out-of-band frequencies.
- **Eliminate** excessive In-Band ripples due to out-of-band reflected energies.
- **Eliminate** the false trigger of power-detector circuitry due to reflected harmonics.
- **Eliminate** potential damage to power amplifiers due to reflection of high power out-of-band energies.

Features:

Low Pass, High Pass, Band Pass

UHF, VHF, 800 MHz Designs

Custom Designs Available Upon Request

Electrical Specifications:

Frequency:	10 - 170 MHz	(Pass Band)
	300-1500 MHz	(Stop Band)
Power:	50 W CW	(10-170 MHz)
	10 W CW	(170-1500 MHz)
Insertion Loss:	0.6 dB Max.	(Pass Band)
VSWR:	1.25:1 Max.	(10-170 MHz)
	1.60:1 Max.	(170-1500 MHz)
Rejection:	50 dB Min.	(300-1500 MHz)

Mechanical Specifications:

Type:	Connectorized
Material:	Aluminum 6061-T6
Surface Finish:	Chem. Film Per MIL-DTL-5541F Type I Class 3 (Yellow Iridite) RoHS Compliant Available
Operating Temperature:	-55°C to +75°C
Storage Temperature:	-60°C to +85°C
Humidity:	95% Non-Condensing
Size:	2.5 x 1.265 x 1.0"

Port Configurations:

Model	Input/Output(J1)	Input/Output(J2)
AF9255-10	N Female	N Female
AF9255-12	N Female	SMA Female
AF9255-102	SMA Female	SMA Female

Werlatone® supplies High Power Low Pass, High Pass, and Band Pass Absorptive Filters. Our patented line of Absorptive Filters internally terminates out-of-band signals, preventing them from generating undesirable intermodulation products. In-band signals are transmitted through the filter. Our **Mismatch Tolerant®** design greatly reduces the dependency of the system on the length of interconnecting cable between two non-perfect components (for example, between the power amplifier and antenna).

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Werlatone, Inc. 17 Jon Barrett Road Patterson, NY 12563 T:(845)278-2220 F:(845)278-3440 sales@werlatone.com www.werlatone.com



WERLATONE

Model AF9255

Absorptive Filters Low Pass

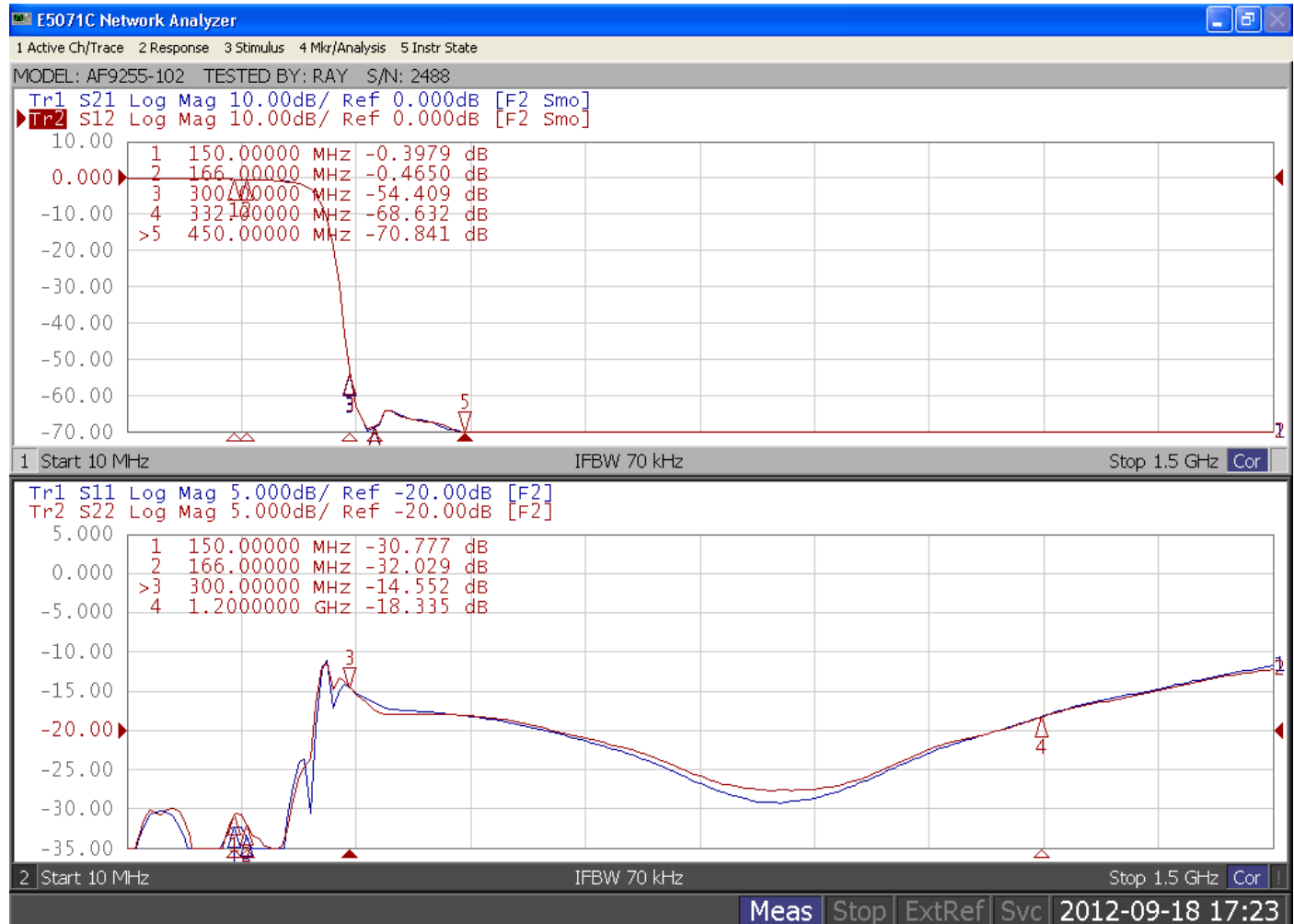


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Performance Data (Specifications subject to change without notice):

Plot 1. Insertion Loss & Rejection Plot 2. Return Loss

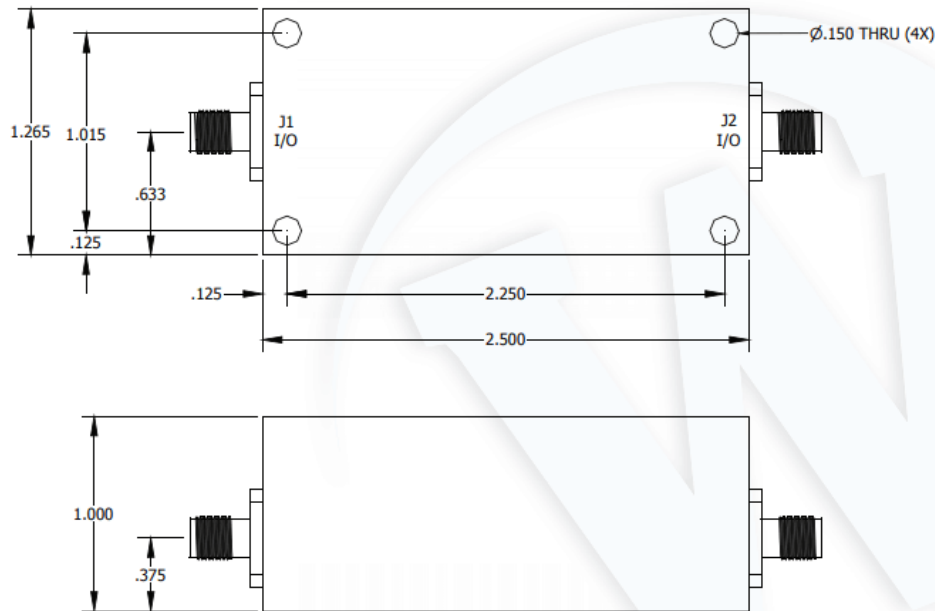




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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV
4/23/12	-	INITIAL RELEASE	AK	BW	BW



UNLESS OTHERWISE SPECIFIED		DWN	DATE	WERLATONE SINCE 1965		17 Jon Barrett Rd Patterson, NY 12563		
* INTERPRET DIMENSIONS IN INCHES		AK	4/23/2012		TITLE	AF9255		
* DIMENSIONING PER ASME Y14.5M-2000		CHK	DATE					
* PARENTHESES FOR REF ONLY		BW	4/23/2012					
* DIMENSIONS ARE IN INCHES		ENGR	DATE					
* DIMENSIONAL LIMITS APPLY BEFORE PROCESSES		BW	4/23/2012					
* TOLERANCES: ANGLES ± 2° XXX ± .005 .XX ± .01		PRGR	DATE	USED ON		AF9255		
* HOLE TOLERANCES ± .004/- .003		QA	DATE	SIZE	CAGE CODE			DWG NO
* REMOVE ALL BURRS AND SHARP EDGES .01 R MAX		ELSE	DATE	A	28812			20856-500
* CONCENTRICITY MATCHED DIA. .003 FIM								
* MACHINE TOOL MISMATCH .003 MAX								
THIRD ANGLE PROJECTION 				SCALE	1:1	SHEET 1 OF 1		

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