


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

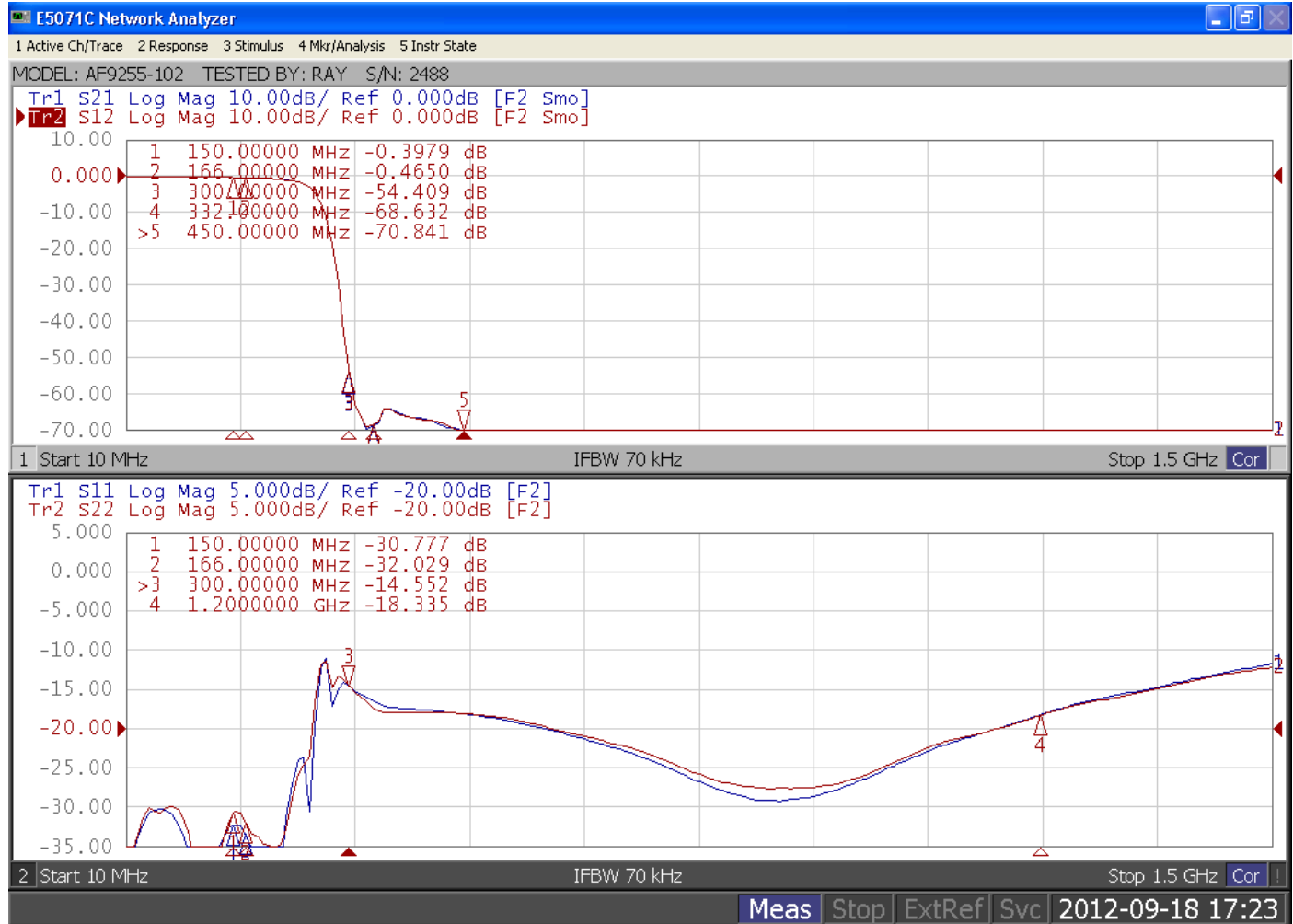
Model	Input/Output(J1)	Input/Output(J2)
AF9255-10	N Female	N Female
AF9255-12	N Female	SMA Female
AF9255-102	SMA Female	SMA Female

**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).



## Performance Data (Specifications subject to change without notice):

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

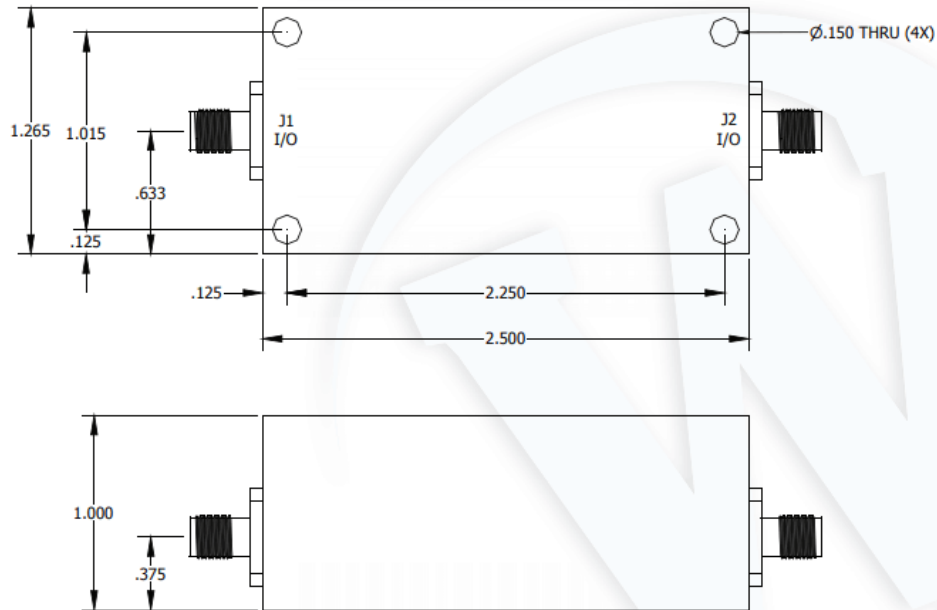


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REVISION HISTORY					
DATE	REV	REVISION RECORD	AUTH	CHK	APPV
4/23/12	-	INITIAL RELEASE	AK	BW	BW



UNLESS OTHERWISE SPECIFIED		DWN	DATE	<b>WERLATONE   SINCE 1965</b>	17 Jon Barrett Rd Patterson, NY 12563	
* INTERPRET DIMENSIONS IN ACCORDANCE WITH ASME Y14.5M-2009 * DIMENSIONING PER ASME Y14.5M-2009 * PARENTHESES FOR REF ONLY * DIMENSIONAL LIMITS APPLY BEFORE PROCESSES * TOLERANCES: ANGLES ± 2° XXX ± .005 XX ± .01 * HOLE TOLERANCES ± .004/- .003 * REMOVE ALL BURRS AND SHARP EDGES (R MAX) * CONCENTRICITY MATCHED DIA. .003 FIM * MACHINE TOOL MISMATCH .003 MAX THIRD ANGLE PROJECTION		AK	4/23/2012		TITLE	
		BW	4/23/2012	OUTLINE		
		BW	4/23/2012	USED ON		
				AF9255		
		QA	DATE	SIZE	CAGE CODE	DWG NO
				A	28812	20856-500
		RLSE	DATE	SCALE	SHEET 1 OF 1	
				1:1		

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