

# DIRECTIONAL COUPLERS

## For RF Applications in Amplifiers and Signal Monitor Points



- ⊕ Operating bandwidth of 5 MHz to 900 MHz
- ⊕ Extended temperature: -40°C to +85°C
- ⊕ 235°C peak IR reflow temperature rating
- ⊕ Low cost

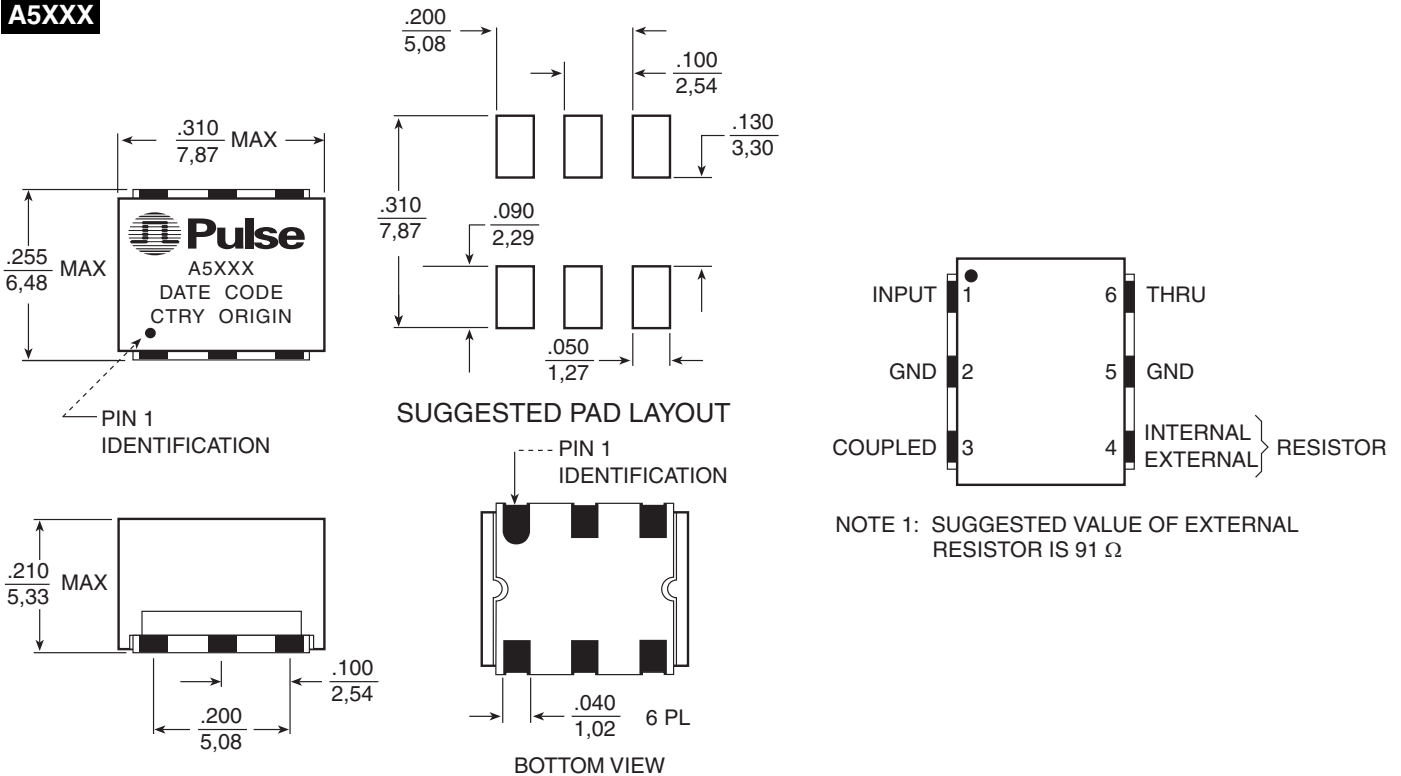
### Electrical Specifications @ 25°C — Operating Temperature -40°C to +85°C

Part Number	Frequency (MHz)	Z (Ω)	Coupling		Mainline Loss		Isolation (dB MIN)	VSWR		Termination (Pin 4 to GND.)
			Nom. (dB)	Flatness (dB MAX)	TYP (dB)	MAX (dB)		TYP (:1)	MAX (:1)	
A5807	5 - 900	75	10 ±0.5	0.8	1.1	1.9	18	1.2	1.6	Internal
A5808	5 - 900	75	7.5 ±0.5	0.8	1.6	2.5	18	1.4	1.6	Internal
A5809	5 - 900	75	12 ±0.5	0.8	0.9	1.4	18	1.2	1.6	Internal
A5816	5 - 900	75	16 ±0.5	0.8	0.8	1.4	18	1.2	1.6	Internal
A5908	5 - 900	75	7.5 ±0.5	0.8	1.6	2.5	18	1.4	1.6	*External
A5910	5 - 900	75	10 ±0.5	0.8	1.1	1.9	18	1.2	1.6	*External
A5912	5 - 900	75	12 ±0.5	0.8	0.9	1.4	18	1.2	1.6	*External
A5916	5 - 900	75	16 ±0.5	0.8	0.8	1.4	18	1.2	1.6	*External

\* A59XX series shall be terminated with a 91 Ω from Pin 4 to Ground to achieve listed performance.

## Mechanical

### A5XXX



Dimensions:  $\frac{\text{Inches}}{\text{mm}}$   
 Unless otherwise specified, all tolerances are  $\pm \frac{.005}{0,13}$

Weight . . . . . 0.35 grams  
 Tape & Reel . . . . . .850/reel

U.S: 858 674 8100 • U.K: 44 1483 401 700 • France: 33 3 84 35 04 04 • Singapore: 65 287 8998 • Taiwan: 886 2 2698 0228 • <http://www.pulseeng.com>

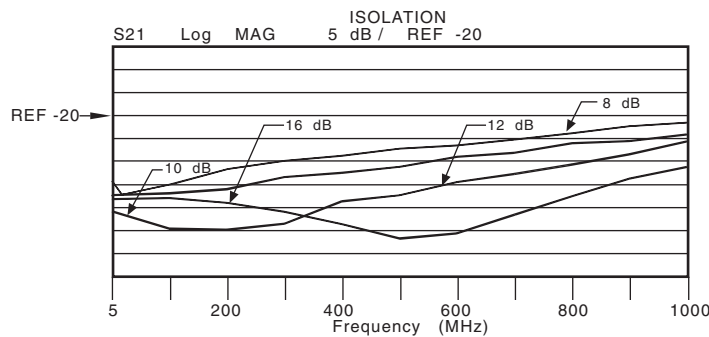
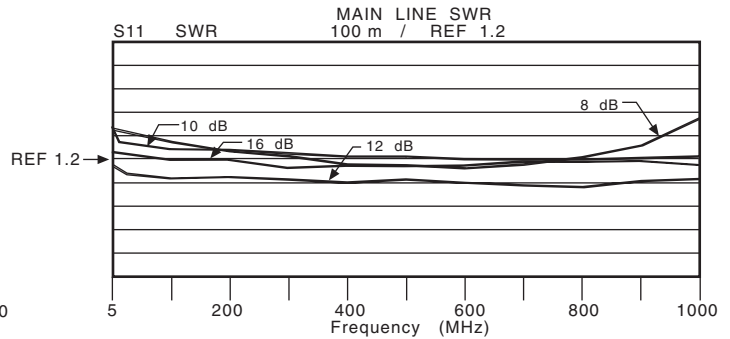
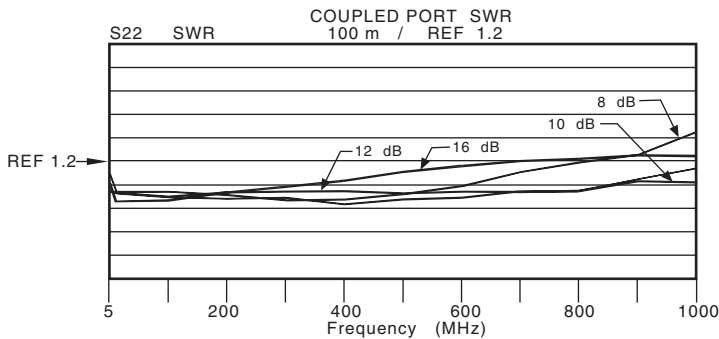
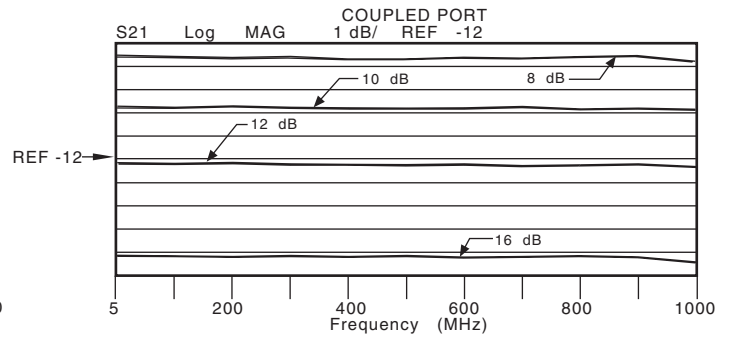
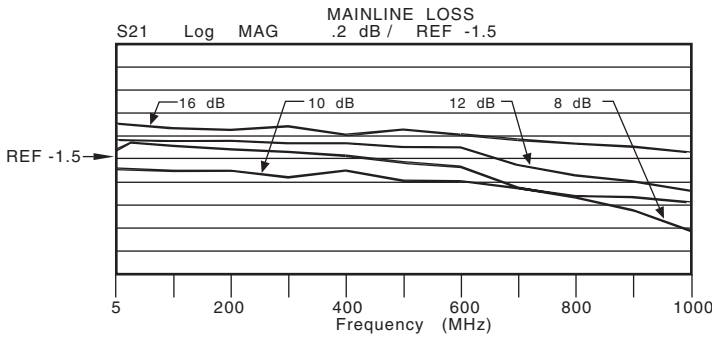
PRELIMINARY A102.P (8/99)

# DIRECTIONAL COUPLERS

## For RF Applications in Amplifiers and Signal Monitor Points



### Typical S-Parameters



### For More Information :

UNITED STATES (Worldwide)	UNITED KINGDOM (Northern Europe)	FRANCE (Southern Europe)	SINGAPORE (Southern Asia)	TAIWAN, R.O.C. (Northern Asia)	DISTRIBUTOR
12220 World Trade Drive San Diego, CA 92128 Quick-Facts: 619 674 9672 http://www.pulseeng.com TEL: 858 674 8100 FAX: 858 674 8262	1 & 2 Huxley Road The Surrey Research Park Guildford, Surrey GU2 5RE United Kingdom TEL: 44 1483 401700 FAX: 44 1483 401701	Zone Industrielle F-39270 Orgelet France TEL: 33 3 84 35 04 04 FAX: 33 3 84 25 46 41	150 Kampong Ampat #07-01/02 KA Centre Singapore 368324 TEL: 65 287 8998 FAX: 65 280 0080	3F-4, No. 81, Sec. 1 HsinTai Wu Road Hsi-Chih, Taipei Hsien Taiwan, R.O.C. Tel: 886 2 2698 0228 FAX: 886 2 2698 0948	

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners.

Printed on recycled paper. ©1999, Pulse Engineering, Inc.

**PRELIMINARY A102.P (8/99)**