

# 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

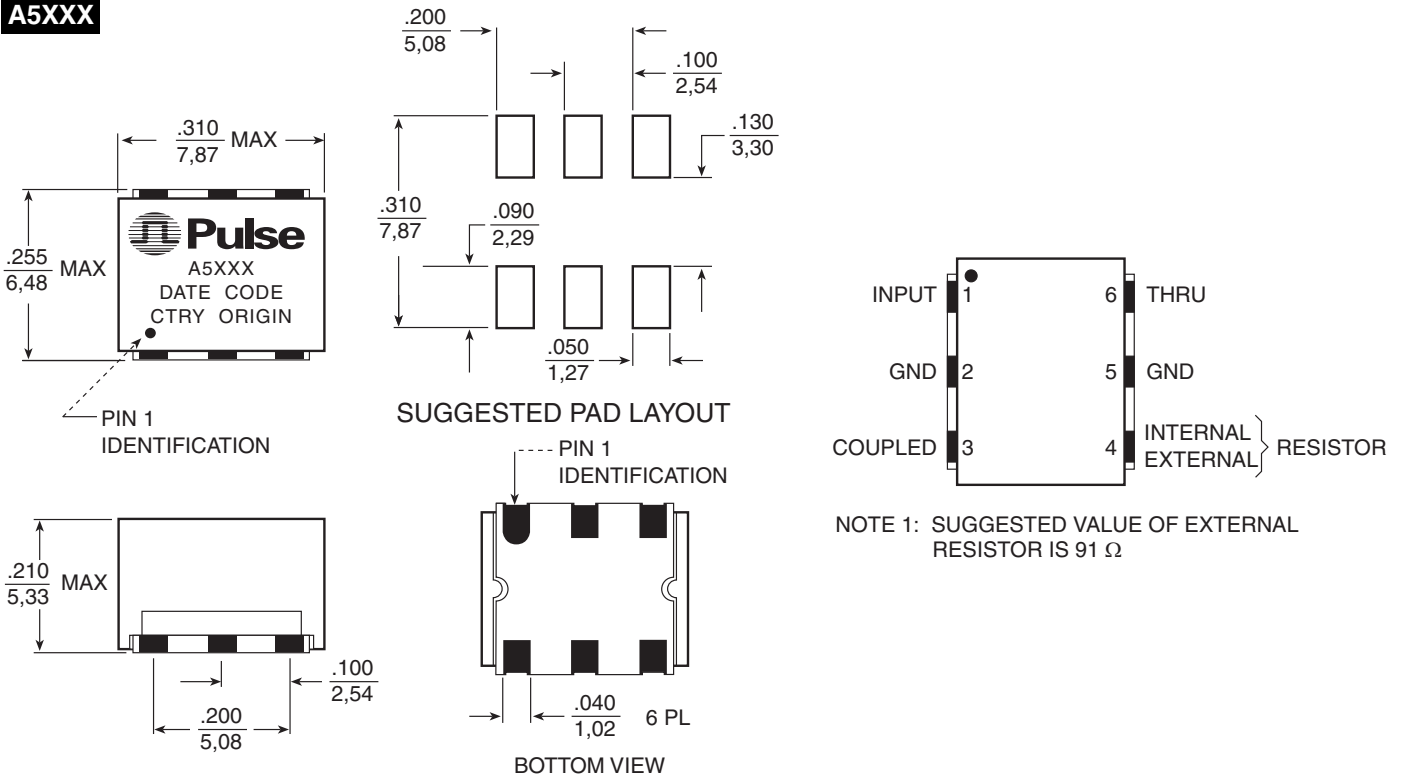
### Electrical Specifications @ 25°C — Operating Temperature -40°C to +85°C

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

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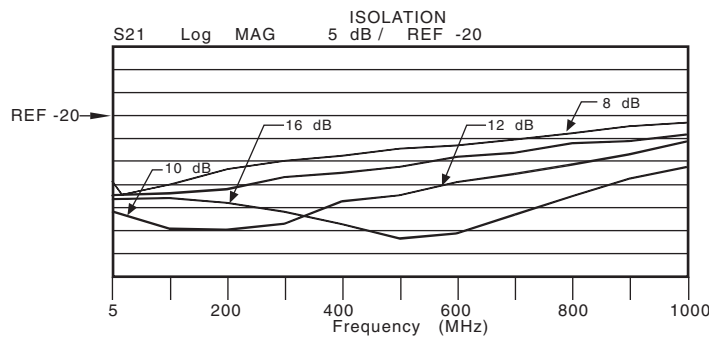
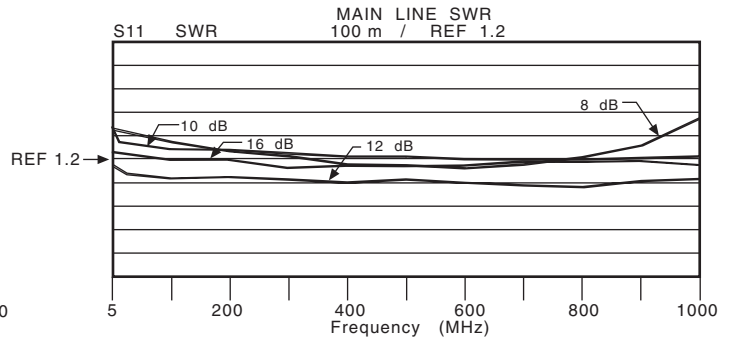
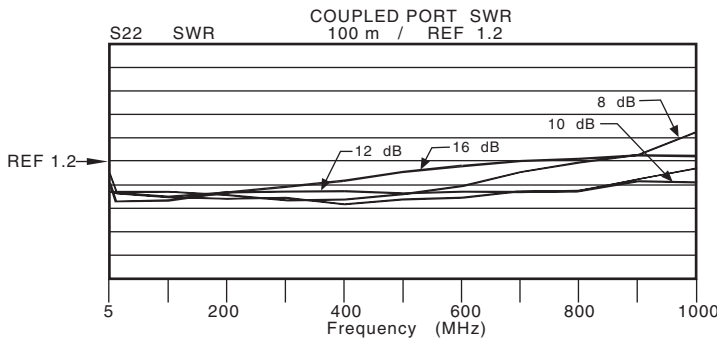
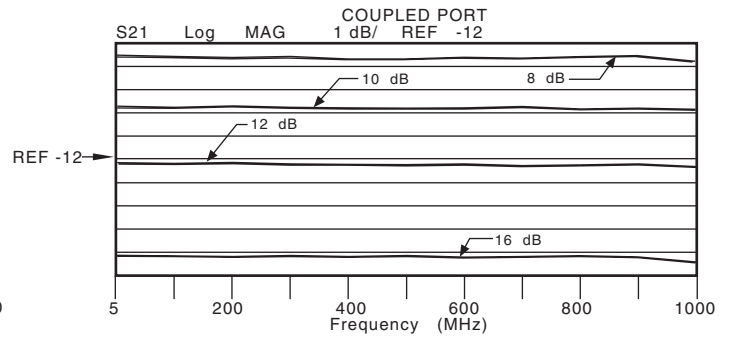
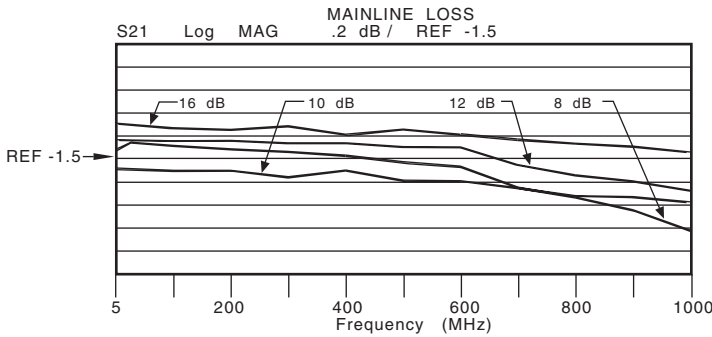
**PRELIMINARY A102.P (8/99)**

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### Typical S-Parameters



### For More Information :

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