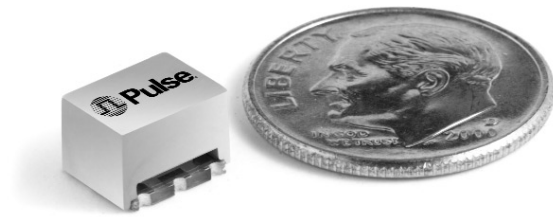


DIRECTIONAL COUPLER

For RF Applications in Cable TV Networking Equipment



- 16 dB coupling level
- Value-oriented construction
- Operating bandwidth of 5 MHz to 900 MHz
- Operating temperature: -40°C to +85°C
- 235°C peak IR reflow temperature rating

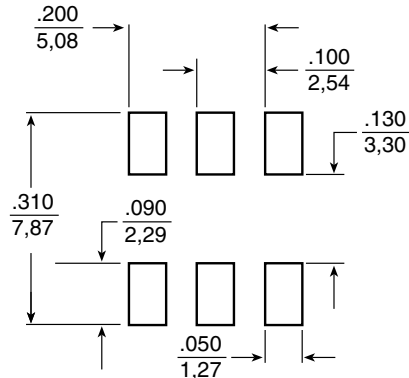
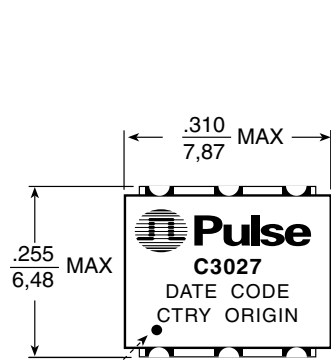
Electrical Specifications @ 25°C — Operating Temperature -40°C to +85°C

Part Number	Frequency (MHz)	Z (Ω)	Coupling		Mainline Loss		Isolation (dB MIN)	Return Loss	
			Nom. (dB)	Flatness (dB MAX)	TYP (dB)	MAX (dB)		TYP (dB)	MIN (dB)
C3027	5 - 900	75	16 +0.4/-0.6	0.6	0.6	1.3	18	22	17

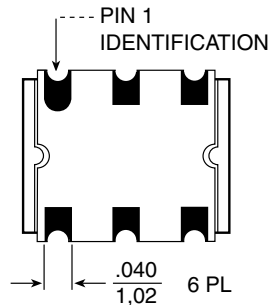
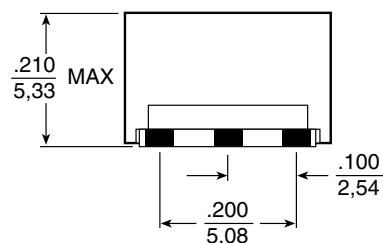
Mechanical

Schematic

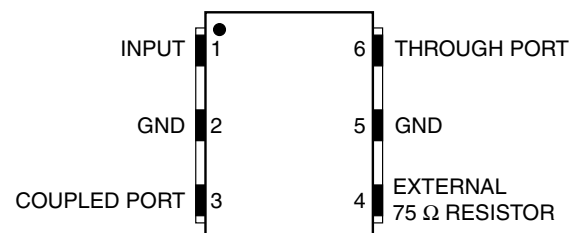
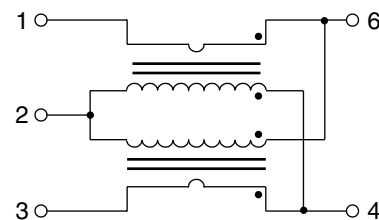
C3027



SUGGESTED PAD LAYOUT



BOTTOM VIEW



Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified, all tolerances are $\pm .005$
0,13

Weight 0.35 grams
Tape & Reel850/reel
Tube65/tube

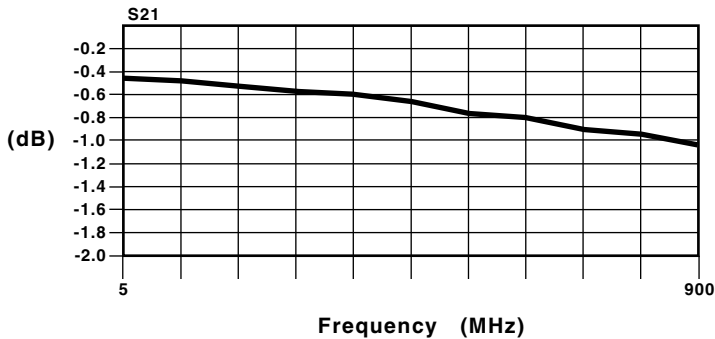
DIRECTIONAL COUPLER

For RF Applications in Cable TV Networking Equipment

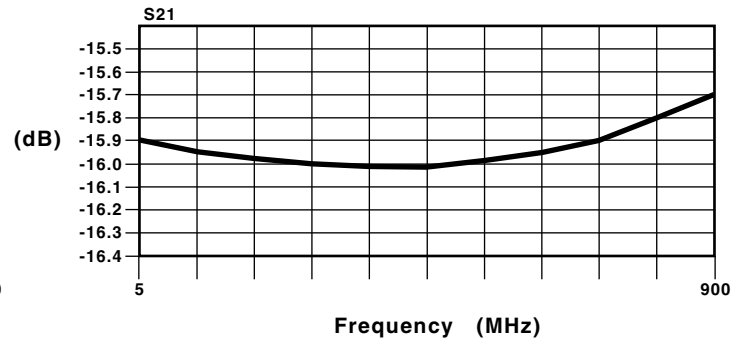


Typical S-Parameters @ 25°C

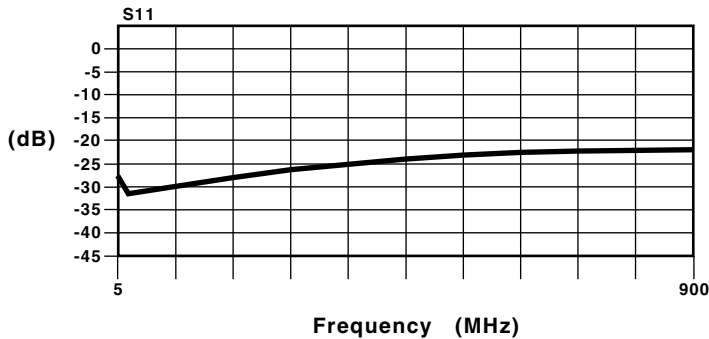
MAINLINE (THROUGH PORT)



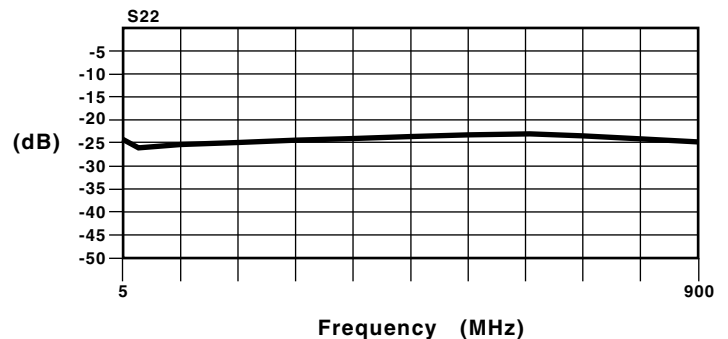
COUPLED PORT



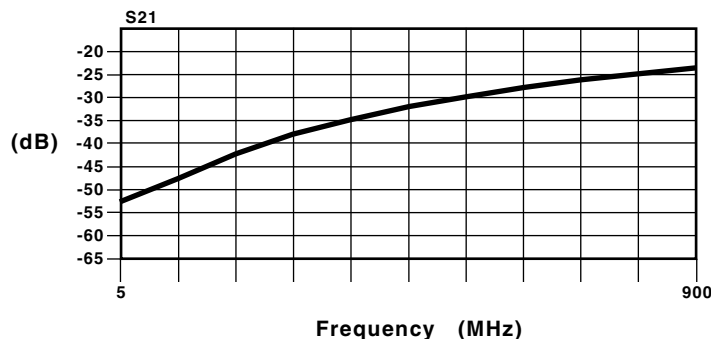
MAINLINE RETURN LOSS



COUPLED PORT RETURN LOSS



ISOLATION



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