

# RF SPLITTER/COMBINER

For RF Return Path Applications in Cable TV Products and Distribution Equipment : 2-Way; 0°



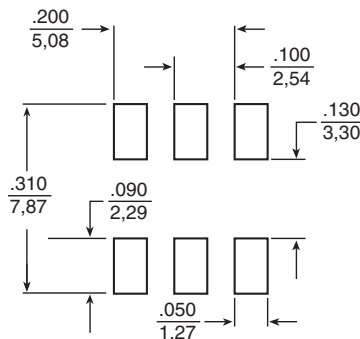
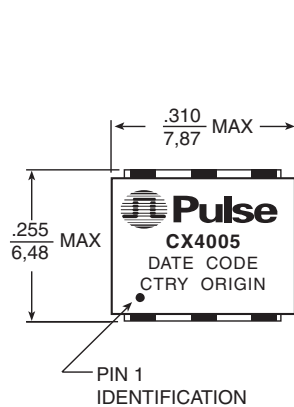
- ⊕ Operating bandwidth: 5 MHz to 250 MHz
- ⊕ Excellent return loss
- ⊕ High isolation
- ⊕ Extended temperature: -40°C to +85°C
- ⊕ 235°C peak solder reflow temperature rating
- ⊕ Designed for:
  - CATV Distribution Amplifiers
  - Set-Top Boxes
  - Cable Modems

Electrical Specifications @ 25°C — Operating Temperature -40°C to +85°C									
Part Number	Frequency (MHz)	Z (Ω)	Isolation (dB TYP/MIN)	Return Loss		Mainline Loss		Phase Unbalance (deg MAX)	Amplitude Unbalance (dB MAX)
				INPUT (dB TYP/MAX)	OUTPUT (dB TYP/MAX)	>3dB (dB TYP/MAX)	Flatness (dB MAX)		
CX4005	5 - 250	75	>24/22	>27/25	>24/20	<0.45/0.75	±0.25	1°	0.30

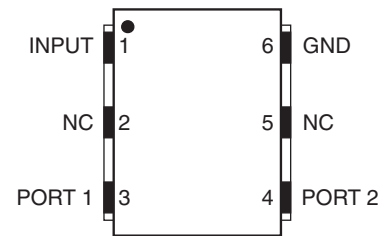
NOTE: CX4005 has an internal terminating resistor. For parts without internal terminating resistor use part CX4005A.

## Mechanical

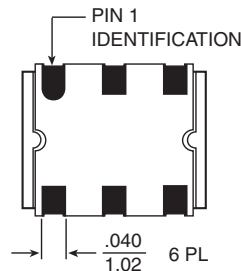
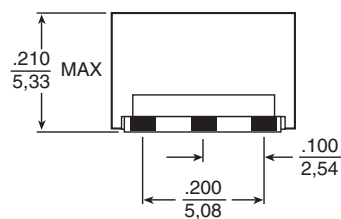
### CX4005



SUGGESTED PAD LAYOUT



Power Rating: 1 Watt, MAX



BOTTOM VIEW

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  
 Tube . . . . .65/tube

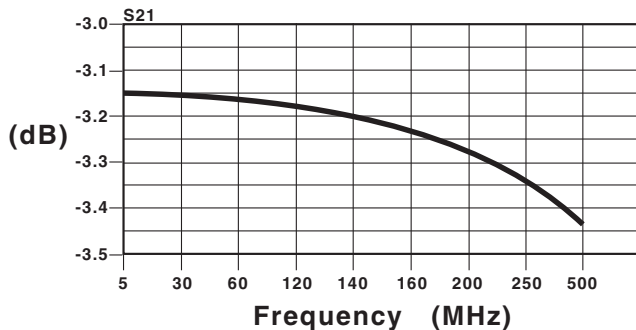
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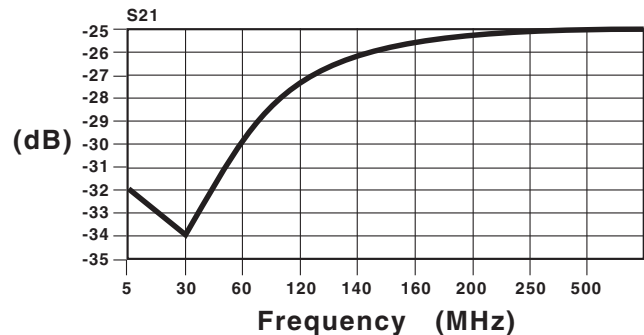


## Typical Performance @ 25°C CX4005

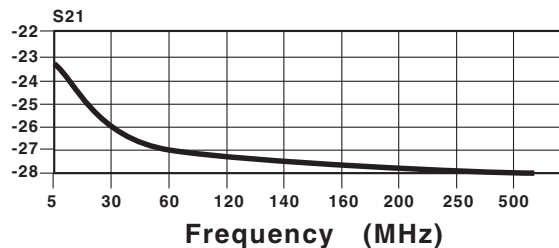
### INSERTION LOSS



### ISOLATION



### OUTPUT RETURN LOSS



### For More Information :

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