

# DIRECTIONAL COUPLER

## For RF Applications in Amplifiers and Signal Monitor Points



-  Value-oriented construction
-  Various operating bandwidths
-  235°C peak IR reflow temperature rating
-  Low cost

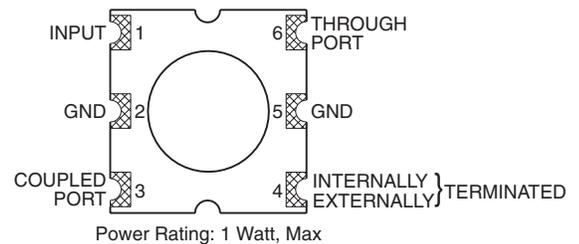
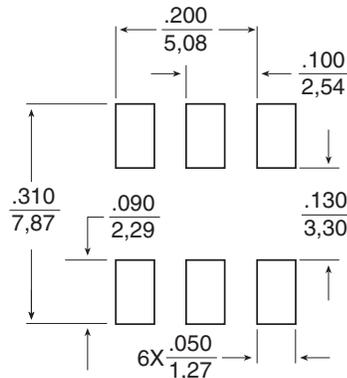
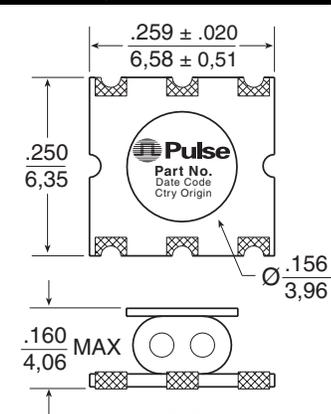
### Electrical Specifications @ 25°C

Part Number	Frequency (MHz)	Z (Ω)	Coupling		Mainline Loss		Isolation (dB MIN)	Return Loss		Termination (Pin 4 to GND)
			Nom. (dB)	Flatness (dB MAX)	TYP (dB)	MAX (dB)		TYP (dB)	MIN (dB)	
CX3039	5 - 1000	75	19.7 ±0.5	±0.6	0.5	1.3	18	30	20	Internal
CX3042	5 - 1000	75	6.0 ±0.75	±0.5	1.76	2.8	18	24	14	Internal
C3108	5 - 900	75	7.5 ±0.5	±0.8	1.6	2.5	18	16	12	Internal
CX3110	5 - 1000	75	10 ±0.5	±0.5	1.4	1.5	18	24	12.7	Internal

X: Extended Temperature (-45°C to +85°C)

### Mechanical

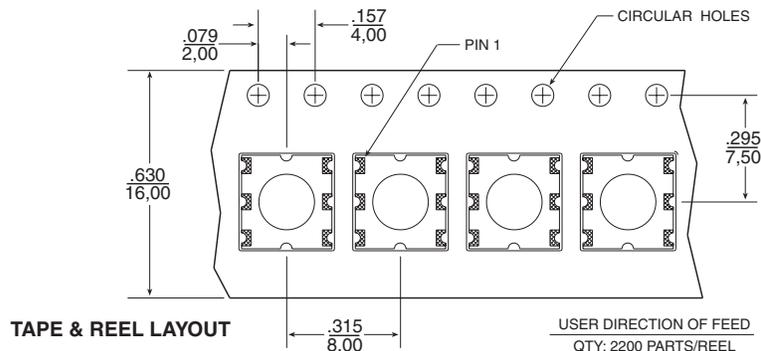
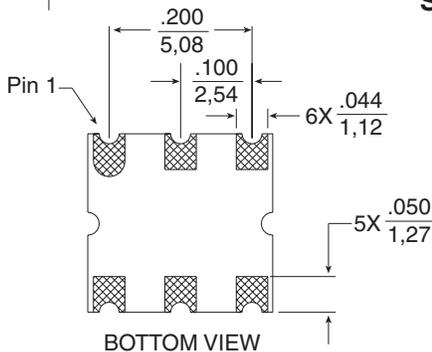
#### CX3039/42, C3108 & CX3110



Weight ..... 0.35 grams  
Tape & Reel ..... 2200/reel

Dimensions:  $\frac{\text{Inches}}{\text{mm}}$   
Unless otherwise specified, all tolerances are  $\pm \frac{.005}{0.13}$

#### SUGGESTED PAD LAYOUT



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**C243.B (10/04)**

# Mouser Electronics

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