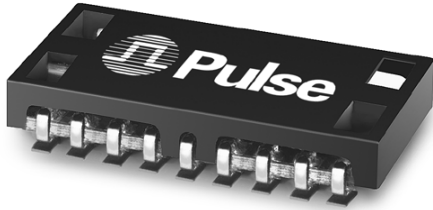


# DIPLEXERS FOR CABLE MODEMS, SET TOP BOXES & HFC EQUIPMENT

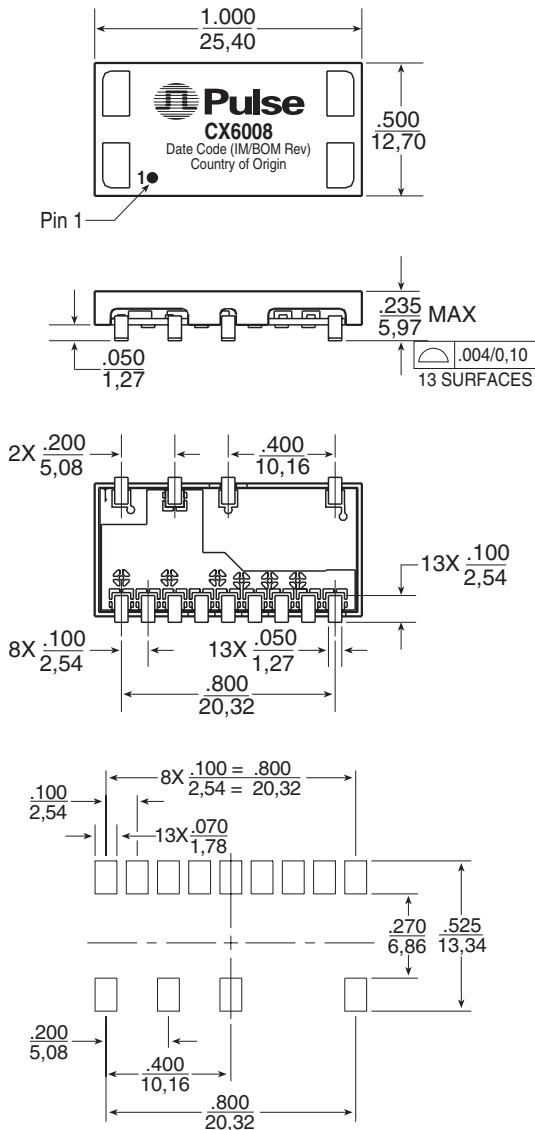
For International Applications



- ⊕ Small surface mount component
- ⊕ 65/85 frequency split
- ⊕ Good isolation port to port
- ⊕ No tuning required

## Mechanical

### CX6008



SUGGESTED PAD LAYOUT

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

### CX6008

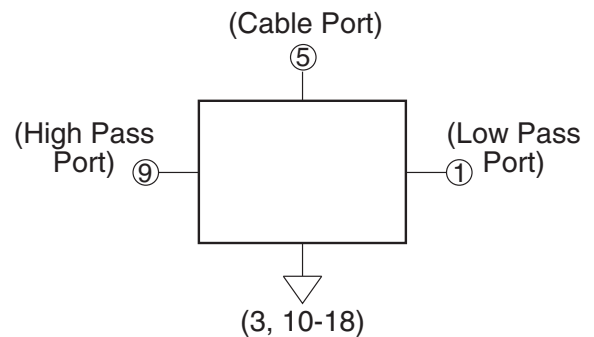
#### LOW PASS FILTER

Passband	5 - 65 MHz	Insertion loss <1 dB (including ripple)
Return Loss	5 - 65 MHz	18 dB typical; 14 dB minimum

#### HIGH PASS FILTER

Passband	at 85 MHz	Insertion loss: <2 dB
	at 88 MHz	Insertion loss: 1.5 dB
	100 - 864 MHz	Insertion loss <1 dB (including ripple)
Return Loss	85 - 200 MHz	20 dB typical; 12 dB minimum
	200 - 864 MHz	20 dB typical; 9 dB minimum
Impedance	75 Ω	All ports
Isolation (Port to Port)	5 - 65 MHz	45 dB minimum
	85 - 864 MHz	30 dB minimum.
Crossover Isolation	65 - 85 MHz	18 dB minimum

## Schematic



Weight .....3.5 grams  
Tape & Reel .....500/reel  
Tube .....20/tube

Dimensions:  $\frac{\text{Inches}}{\text{mm}}$  Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0,25}$

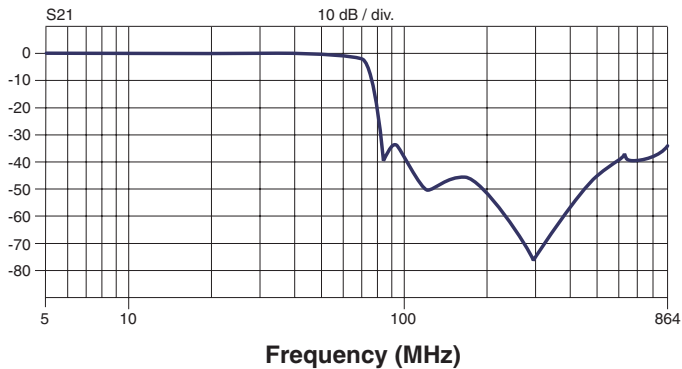
# DIPLEXERS FOR CABLE MODEMS, SET TOP BOXES & HFC EQUIPMENT

For International Applications

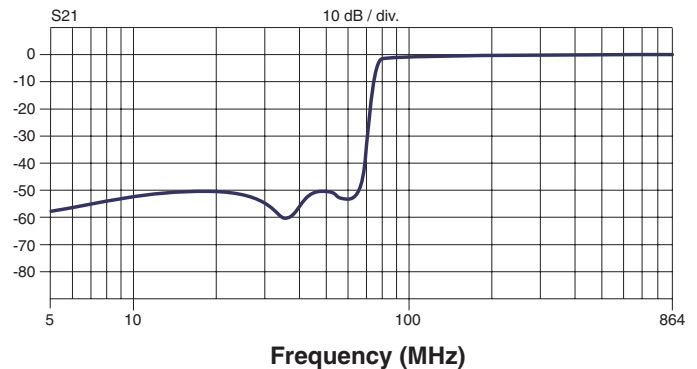


## Typical Performance @ 25°C CX6008

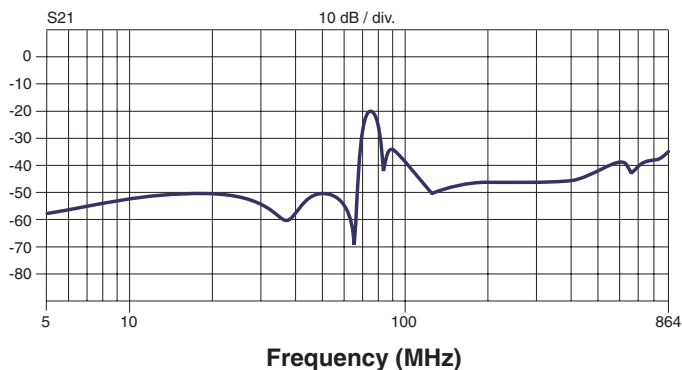
**Low Pass Insertion Loss (TYP)**



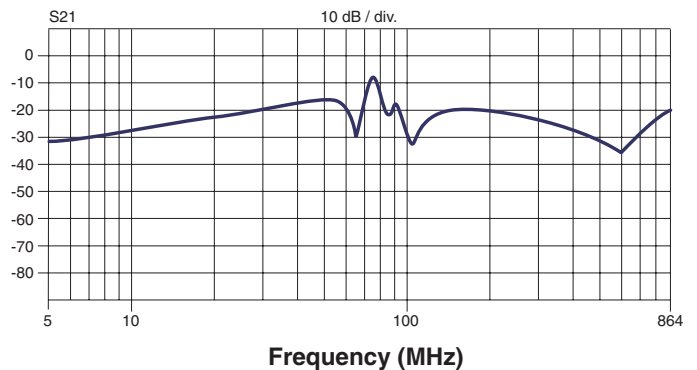
**High Pass Insertion Loss (TYP)**



**Isolation (TYP)**



**Passband Return Loss (TYP)**



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