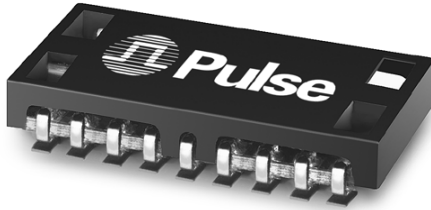


DIPLEXERS FOR CABLE MODEMS, SET TOP BOXES & HFC EQUIPMENT

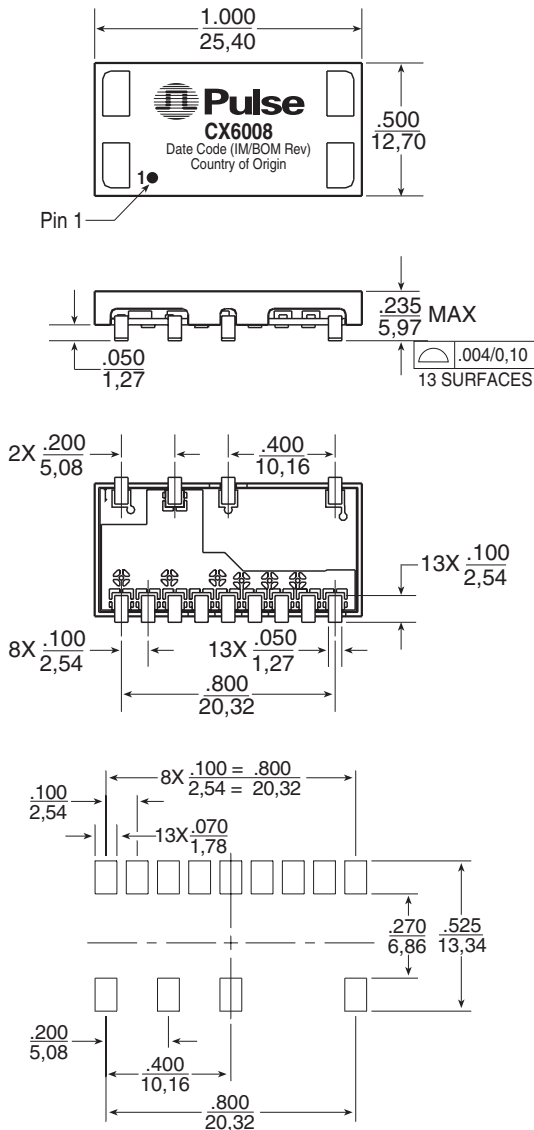
For International Applications



- ⊕ 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

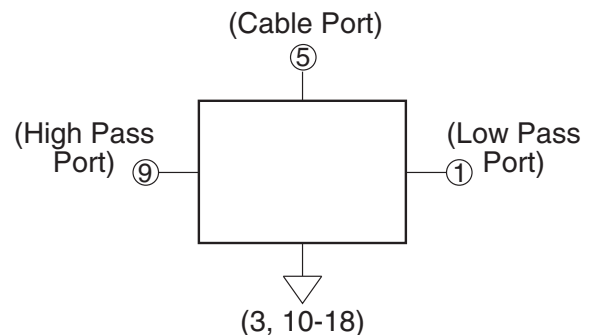
LOW PASS FILTER

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



Weight3.5 grams
Tape & Reel500/reel
Tube20/tube

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

Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$

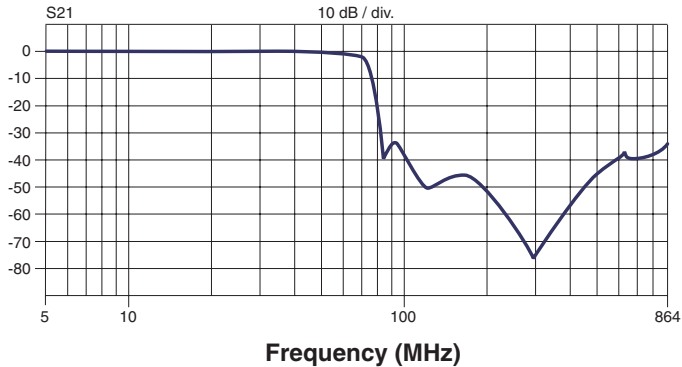
DIPLEXERS FOR CABLE MODEMS, SET TOP BOXES & HFC EQUIPMENT

For International Applications

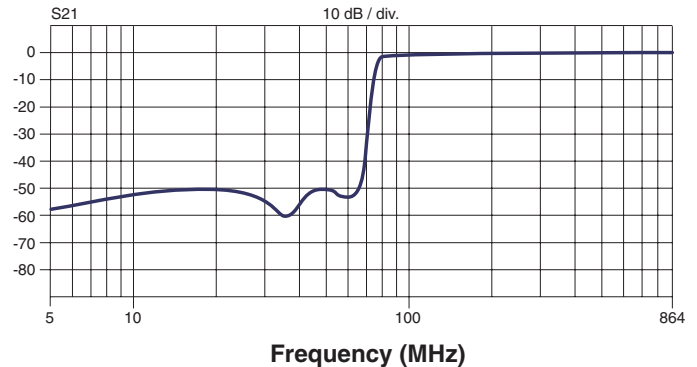


Typical Performance @ 25°C CX6008

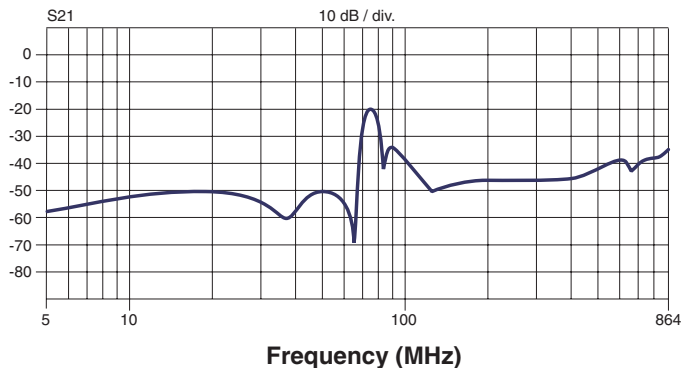
Low Pass Insertion Loss (TYP)



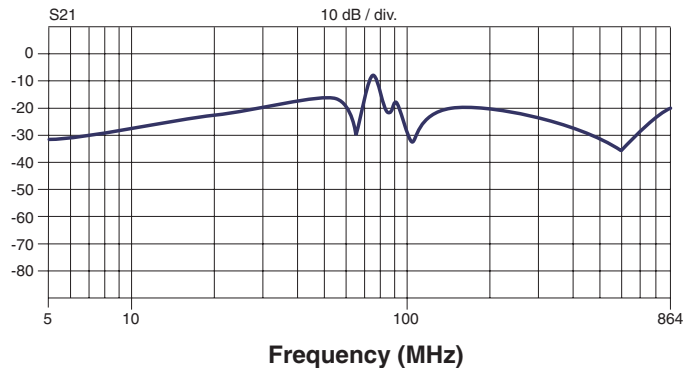
High Pass Insertion Loss (TYP)



Isolation (TYP)



Passband Return Loss (TYP)



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