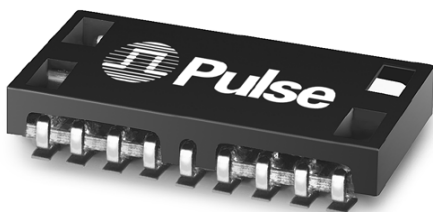


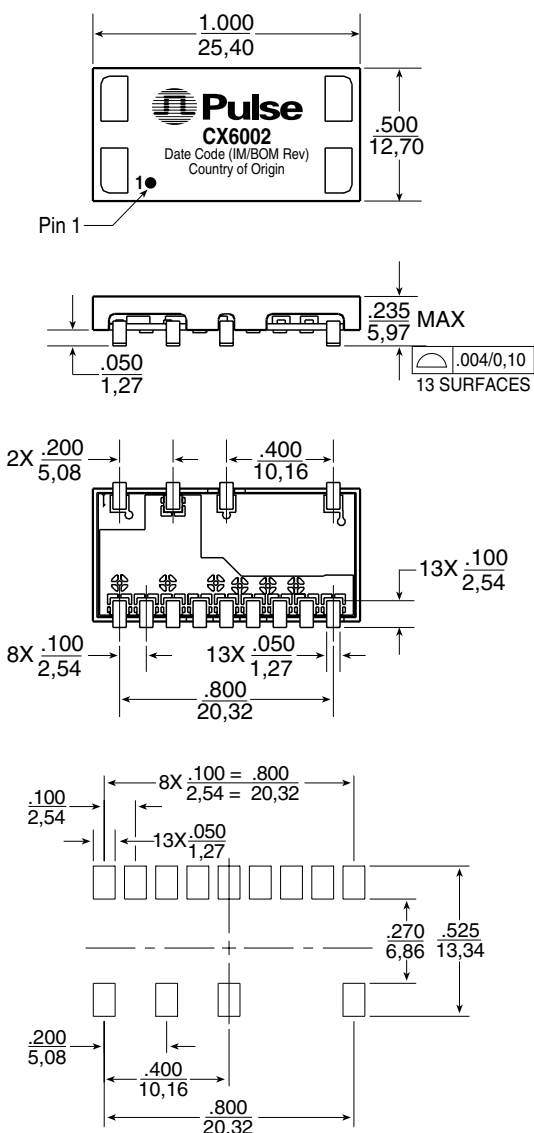
DIPLEXERS FOR CABLE MODEMS, SET TOP BOXES AND HFC EQUIPMENT



- Small surface mount component
- 42/54 frequency split
- Good isolation port to port
- No tuning required

Mechanical

CX6002



SUGGESTED PAD LAYOUT

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

CX6002

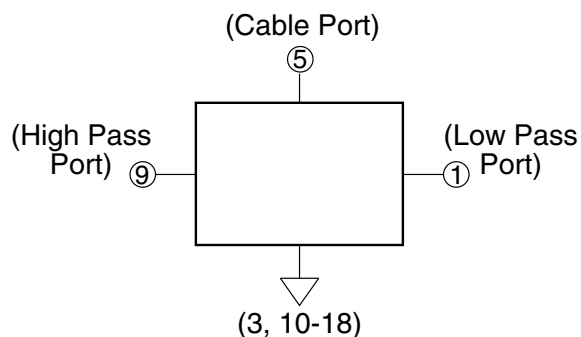
LOW PASS FILTER

Passband	5 - 38 MHz	Insertion loss <1 dB (including ripple)
	at 40 MHz	Insertion loss: 1.0 dB typical
	at 42 MHz	Insertion loss : <1.5 dB
Return Loss	5 - 42 MHz	14 dB or better

HIGH PASS FILTER

Passband	at 54 MHz	Insertion loss: <2 dB
	at 65 MHz	Insertion loss: 1.0 dB typical
	80 - 864 MHz	Insertion loss <1 dB
Return Loss	54 - 200 MHz	12 dB or better
	200 - 864 MHz	9 dB or better
Impedance	75 Ω	All ports
Isolation (Port to Port)	5 - 42 MHz	50 dB minimum
	54 - 864 MHz	30 dB minimum.
Crossover Isolation	42 - 54 MHz	18 dB minimum

Schematic



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

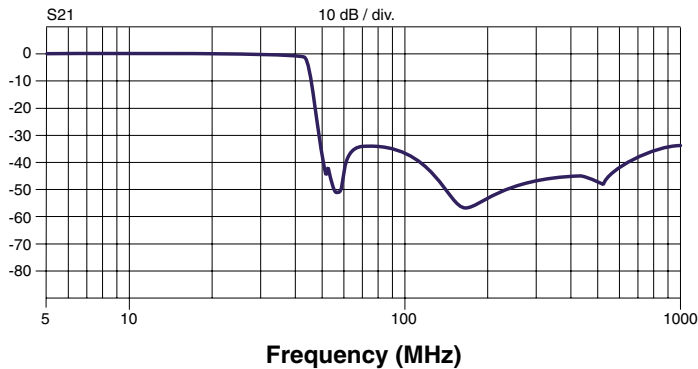
Dimensions: $\frac{\text{Inches}}{\text{mm}}$ Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$

DIPLEXERS FOR CABLE MODEMS, SET TOP BOXES AND HFC EQUIPMENT

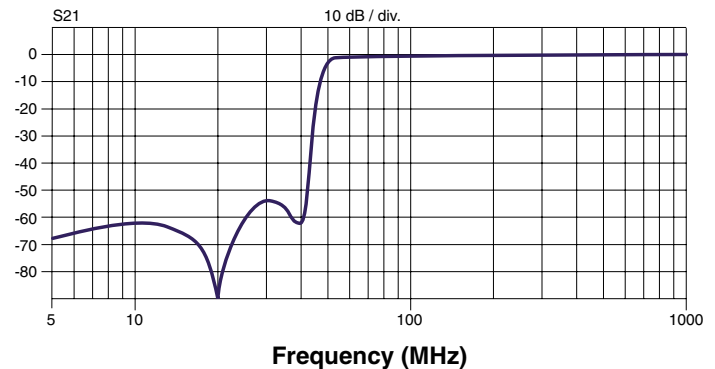


Typical Performance @ 25°C CX6002

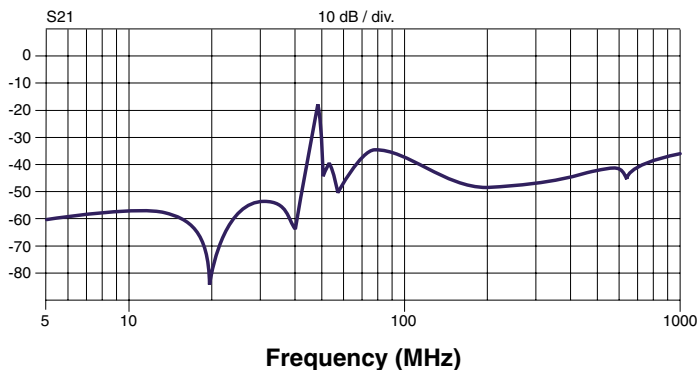
Low Pass Insertion Loss (TYP)



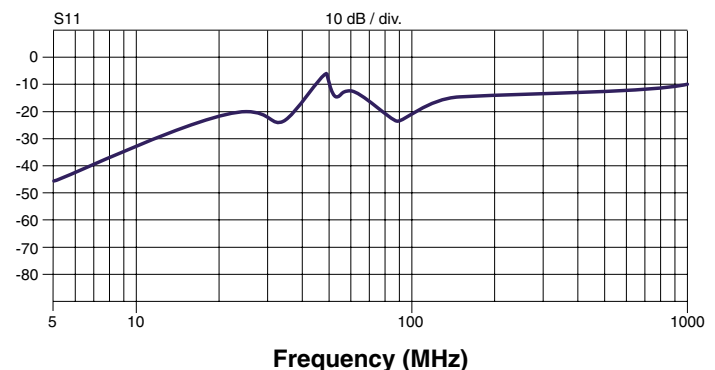
High Pass Insertion Loss (TYP)



Isolation (TYP)



Passband Return Loss (TYP)



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