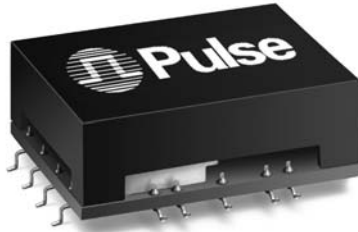


# DIPLEXERS FOR HFC EQUIPMENT AND CABLE MODEMS

## For International Applications



- Ideal for HFC equipment, cable modem and set top box equipment
- Improved performance
- Small surface mount component
- 65/85MHz frequency splits<sup>1</sup>
- 5 - 870MHz range

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

Part No.	Low Pass Filter		High Pass Filter			Impedance (All Ports) (Ω)	Crossover Isolation @ 65-85MHz (dB MIN)	Floor Isolation (dB MIN)		
	Passband (dB) (Insertion Loss) @ 5-65MHz	Return Loss (dB) @ 5-65MHz	Passband (dB) (Insertion Loss) @ 85-870MHz	Return Loss (dB)				@ 5-65MHz	@ 85-400MHz	@ 400-870MHz
				@ 85-750MHz	@ 751-870MHz					
CX6006	<1.2	≥20	<1.2	≥20	≥18	75	30	45	43	37
CX6006L	<1.2	≥18	<1.2	≥18	≥16	75	28	45	43	37

NOTES: 1. Additional frequencies are supported upon request. Contact Pulse Applications Engineering.

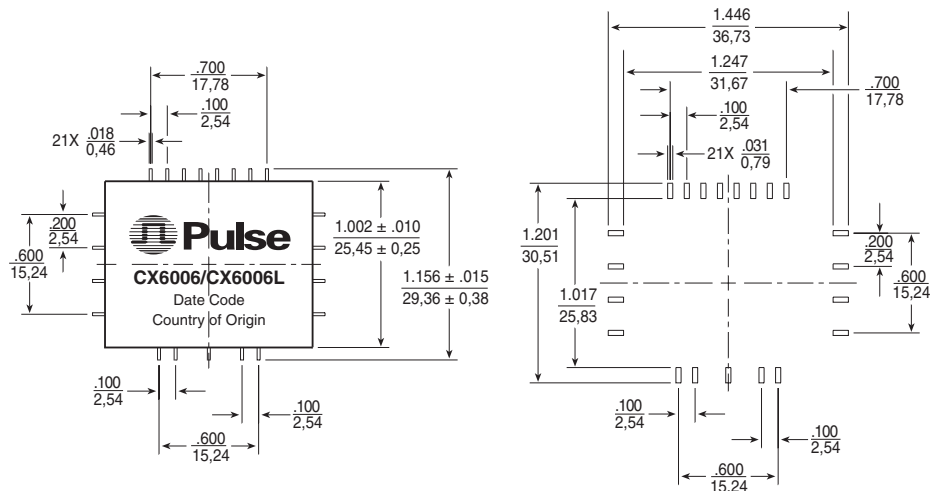
CX6006 - capable of withstanding 500Vdc

CX6006L (Cost-effective) - capable of withstanding 50Vdc

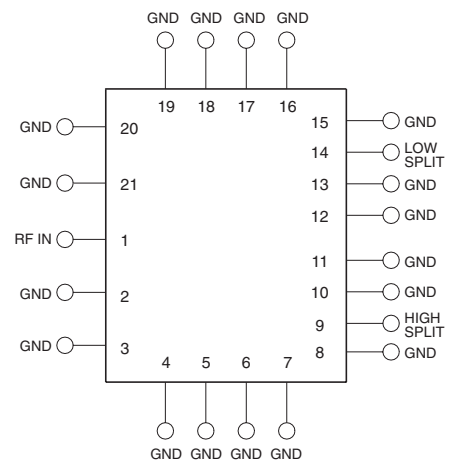
### Mechanical

### Block Diagram

#### CX6006/CX6006L



#### SUGGESTED PAD LAYOUT



Weight ..... 8.5 grams

Tray ..... .56/tray

Dimensions: Inches  
mm

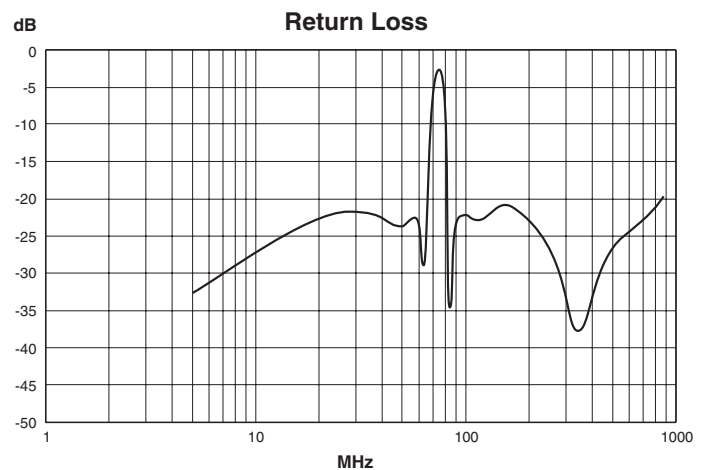
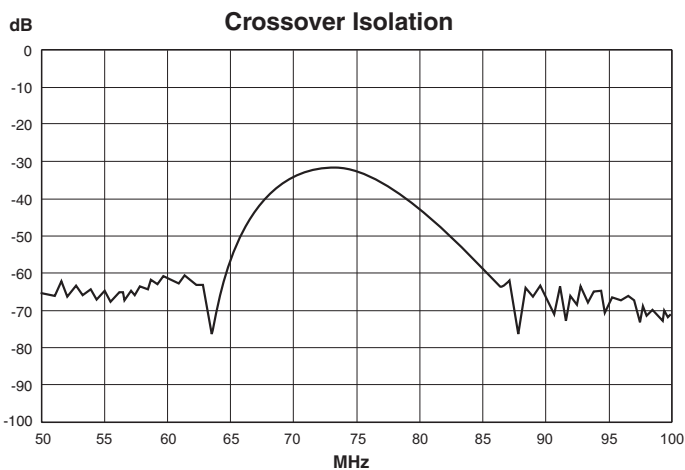
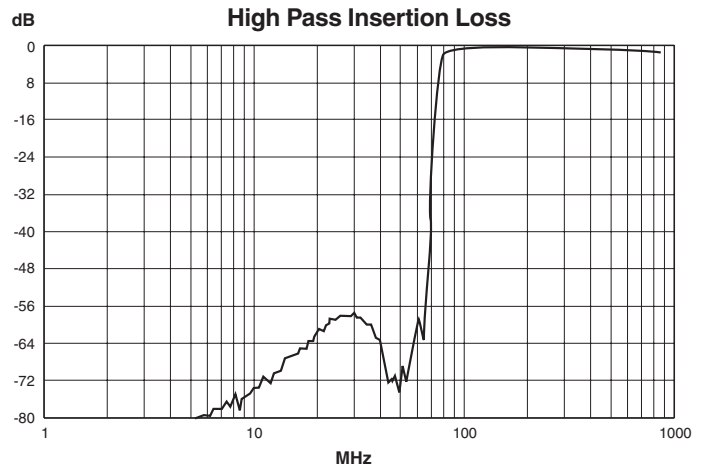
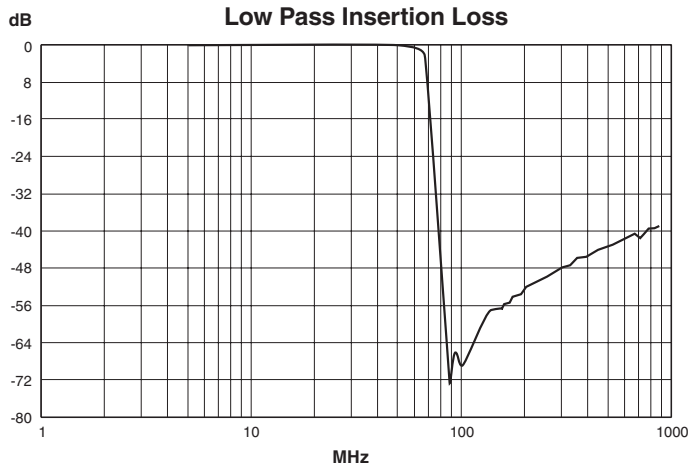
Unless otherwise specified, all tolerances are ±  $\frac{.010}{0.25}$

# DIPLEXERS FOR HFC EQUIPMENT AND CABLE MODEMS

## For International Applications



### Typical Performance @ 25°C CX6006 and CX6006L



### For More Information :

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