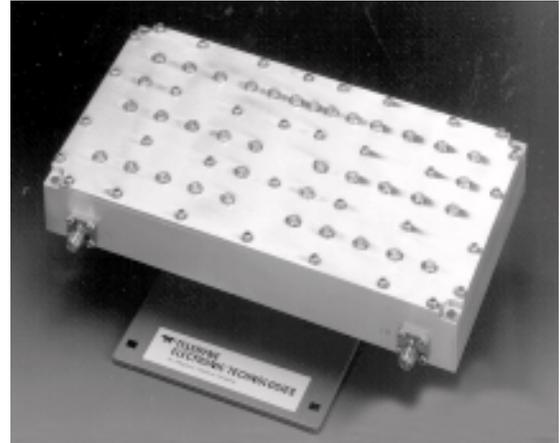


## 4757 PCS DUPLEXER

### Features:

- ❖ Temperature Stability better than Aluminum
- ❖ Low Loss (1.0 dB, Typical)
- ❖ Lightweight, Injection Molded Housing
- ❖ 50 watts CW Power Handling
- ❖ Available from Stock
- ❖ Low Cost



### Product Description:

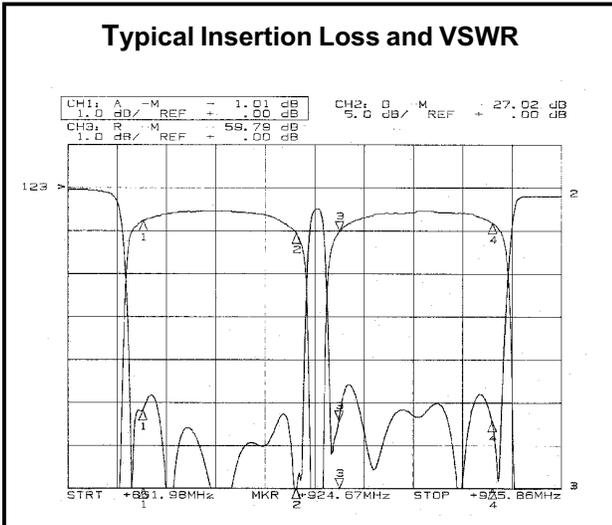
The 4757 duplexer is a fullband PCS duplexer that simultaneously transmits and receives frequencies to a common antenna. This duplexer uses our patented injection molded plastic technology that has been fully qualified and deployed in applications worldwide for nearly a decade. It offers high isolation, provides low insertion loss, and greater temperature stability than aluminum. The lightweight, low cost features of this product makes it ideal for applications such as micro basestations, tower mounted amplifiers, repeaters, smart/adaptive antennas, and wireless local loop systems. These duplexers are immediately available from stock. Custom designs are also available upon request with a minimal lead-time.

### TABLE OF SPECIFICATIONS

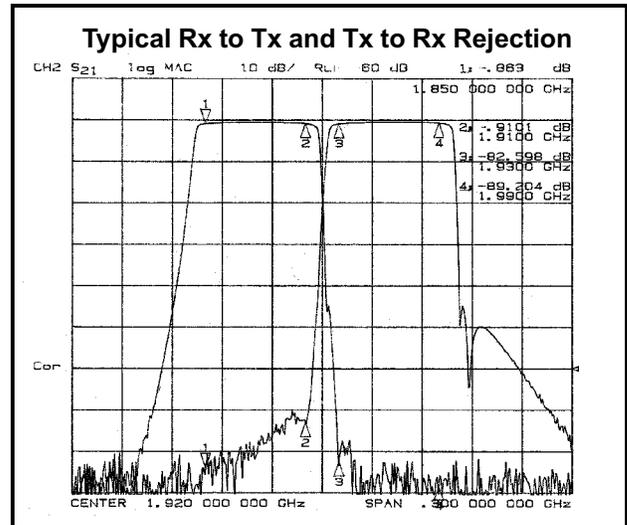
PARAMETER	FREQUENCY (MHz)	SPECIFICATIONS (GUARANTEED / TYPICAL)
<b>Receive Band:</b>		
Passband	1850 - 1910 MHz	
Insertion Loss	1850 - 1910 MHz	1.2 dB max. / 1.0 dB
Insertion Loss Ripple	1850 - 1910 MHz	0.5 dB / 0.4 dB
Input / Output VSWR	1850 - 1910 MHz	1.45:1 max. / 1.35:1
<b>Transmit Band:</b>		
Passband	1930 - 1990 MHz	
Insertion Loss	1930 - 1990 MHz	1.2 dB max. / 1.0 dB
Insertion Loss Ripple	1930 - 1990 MHz	0.5 dB / 0.4 dB
Input / Output VSWR	1930 - 1990 MHz	1.45:1 max. / 1.35:1
<b>Interchannel Isolation:</b>		
Tx to Rx	1850 - 1910 MHz	60 dB min. / 70 dB
Rx to Tx	1930 - 1990 MHz	60 dB min. / 70 dB
<b>Weight</b>		
		17 oz., 475 grams
<b>Power Handling (CW)</b>		
		50 watts
<b>Operating Temperature</b>		
		-30°C to +85°C
<b>Storage Temperature</b>		
		-54°C to +85°C

## 4757 PCS DUPLEXER

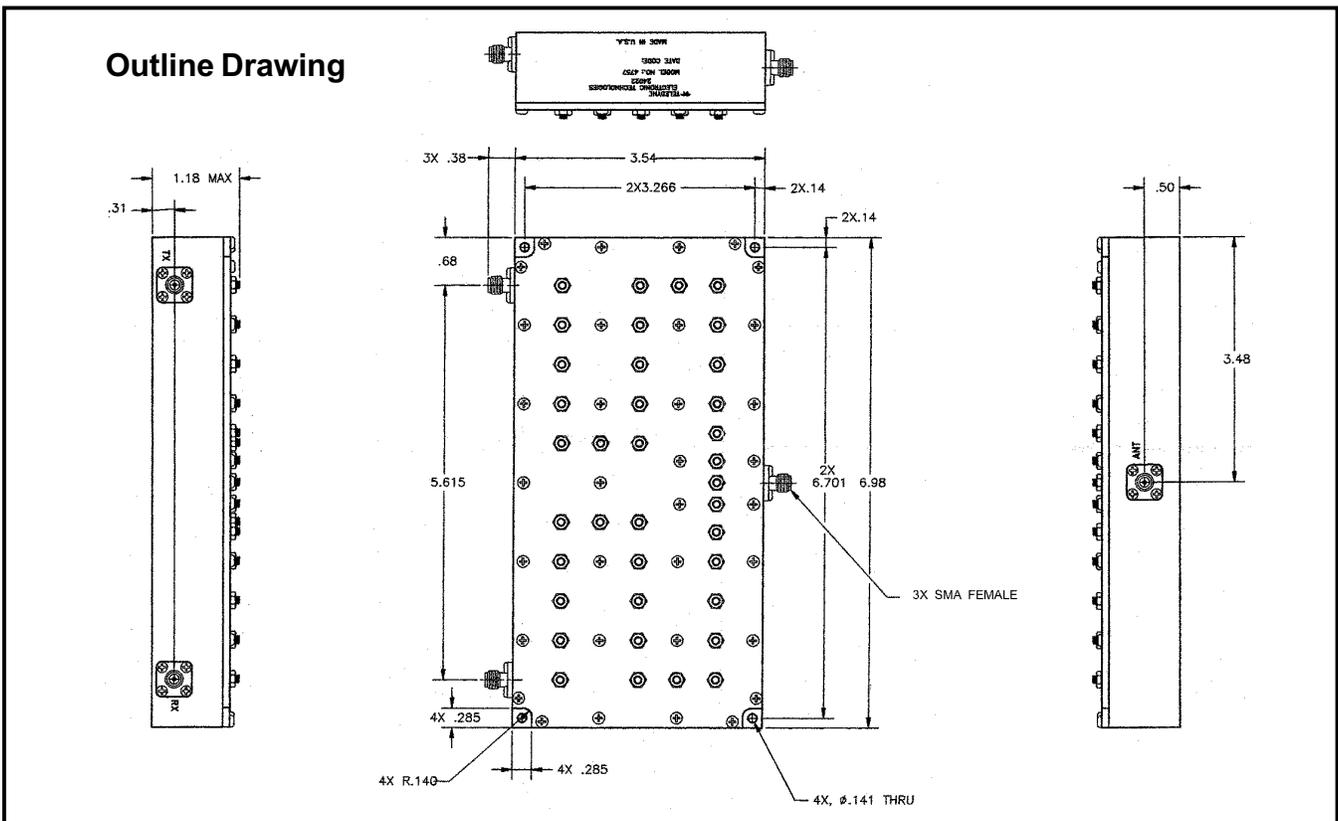
**Typical Insertion Loss and VSWR**



**Typical Rx to Tx and Tx to Rx Rejection**



**Outline Drawing**



Teledyne reserves the right to make changes without further notice to any specifications herein. "Typical" parameters can and do vary in different applications.