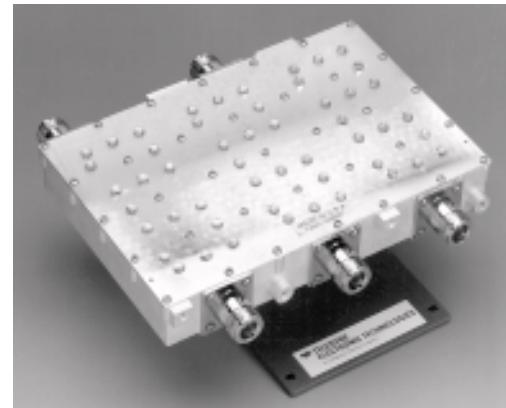


4773 60 MHz PCS DUPLEXER

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 4773 is a 60 MHz PCS duplexer that is designed with an integrated diversity receive filter. This compact duplexer is ideal when a diversity channel is integrated into the BTS. This duplexer can be modified to accommodate 3 receive filters, 3 transmit filters, or any combination of Tx and Rx filters. Please contact us for assistance.

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 CDMA, TDMA, and GSM-1900 basestations. These duplexers are immediately available from stock. Custom designs are also available upon request with a minimal lead-time.

TABLE OF SPECIFICATIONS

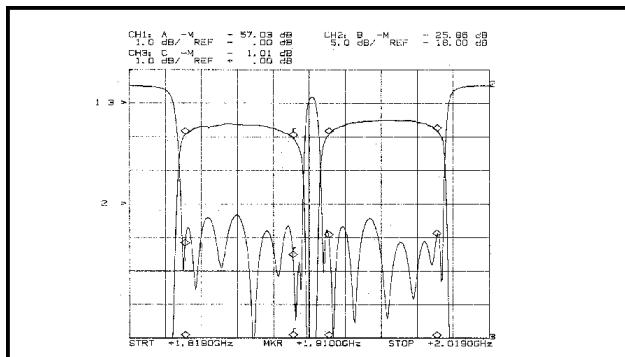
PARAMETER	FREQUENCY (MHz)	SPECIFICATIONS (GUARANTEED / TYPICAL)
Duplexer Receive Band:		
Passband	1850 - 1910 MHz	
Insertion Loss	1850 - 1910 MHz	< 1.4 dB max. / 1.2 dB
Duplexer Transmit Band:		
Passband	1930 - 1990 MHz	
Insertion Loss	1930 - 1990 MHz	< 1.4 dB max. / 1.2 dB
Filter Receive Band:		
Passband	1850 - 1910 MHz	
Insertion Loss	1850 - 1910 MHz	< 1.1 dB max. / 0.9 dB
Rejection	1930 - 6000 MHz	60 dB min. / 63 dB
Tx - Rx Isolation (dB)		60 dB min. / 63 dB
Passbands VSWR		1.40:1 / 1.35:1
Weight		29 oz., 790 grams
Power Handling (CW)		50 watts
Operating Temperature		-30°C to +70°C
Storage Temperature		-54°C to +85°C

Product Information

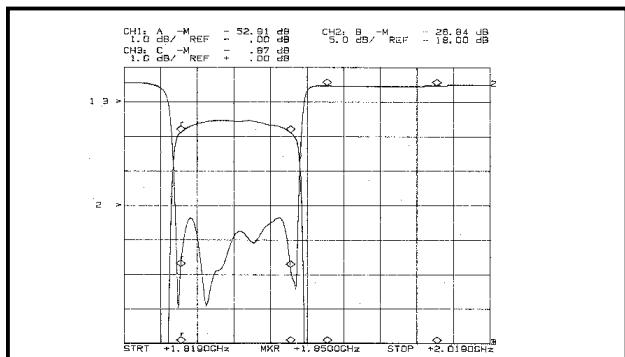
ISO 9001
CERTIFIED

4773

Typical Insertion Loss and VSWR of the Duplexer

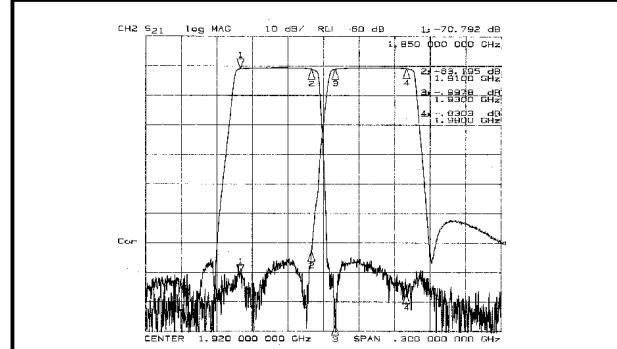


Typical Insertion Loss and VSWR of the Diversity Receive Filter

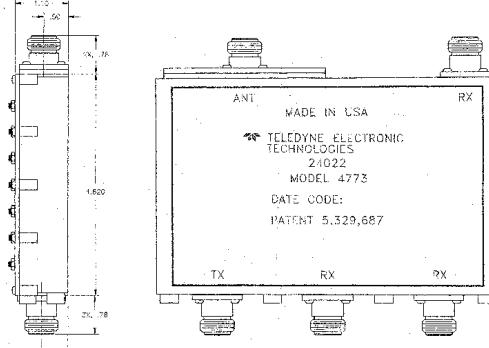
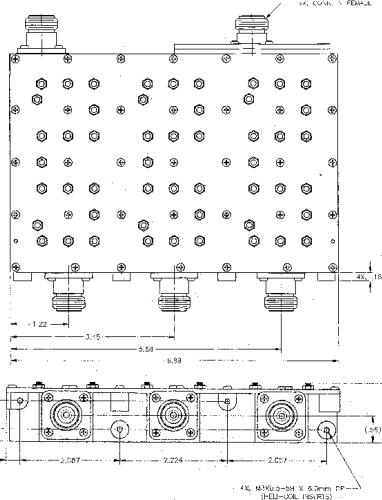
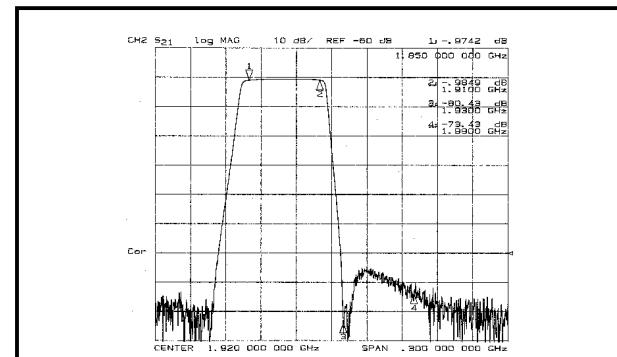


60 MHz PCS DUPLEXER

Typical Rx to Tx and Tx to Rx Rejection



Typical Rejection of the Diversity Receive Filter



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.

 **TELEDYNE ELECTRONIC TECHNOLOGIES**
Microwave Electronic Components

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