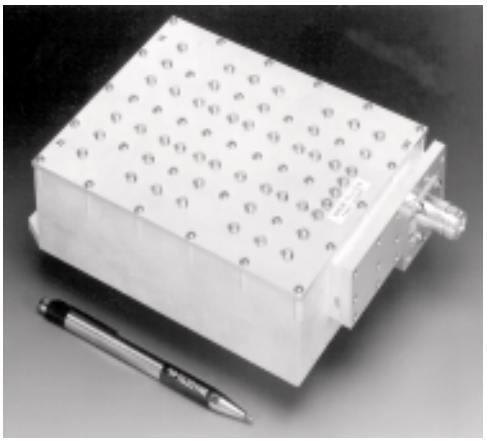
Product Information

ISO 9001 CERTIFIED

4779
PGSM 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 4779 duplexer is designed to provide high isolation for PGSM applications. 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, and smart/adaptive antennas. 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)
Receive Band:		
Passband	890 - 915 MHz	
Insertion Loss	890 - 915 MHz	≤1.4 dB max. / 1.2 dB
Insertion Loss Ripple	890 - 915 MHz	<0.80 dB / 0.40 dB
Input / Output VSWR	890 - 915 MHz	1.40:1 max. / 1.35:1
Transmit Band:		
Passband	935 - 960 MHz	
Insertion Loss	935 - 960 MHz	≤1.4 dB max. / 1.2 dB
Insertion Loss Ripple	935 - 960 MHz	<0.80 dB / 0.40 dB
Input / Output VSWR	935 - 960 MHz	1.40:1 max. / 1.35:1
Interchannel Isolation:		
Tx to Rx	890 - 915 MHz	90 dB min. / 93 dB
Rx to Tx	935 - 960 MHz	87 dB min. / 90 dB
Weight		29 oz., 820 grams
Power Handling (CW)		50 watts
Operating Temperature		-5°C to +70°C
Storage Temperature		-54°C to +85°C

Note: Duplexer can also be tuned to R-GSM.

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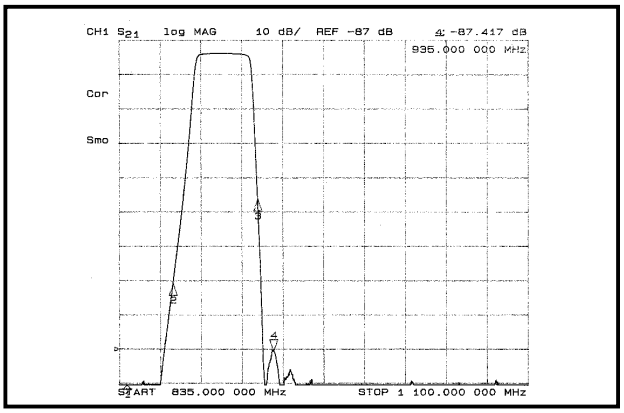
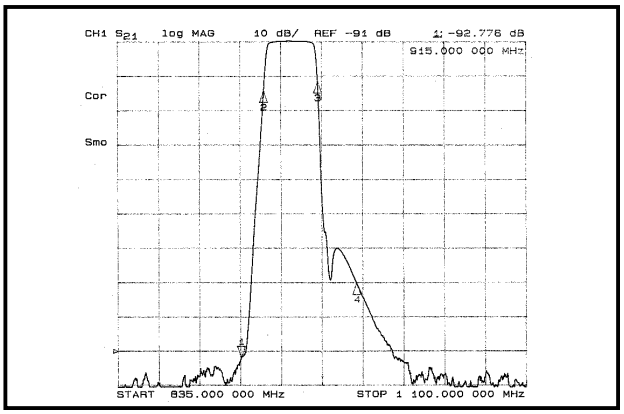
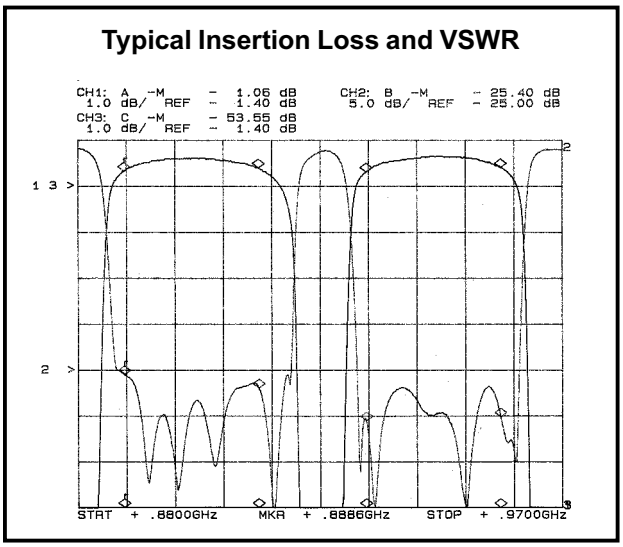
RX Band



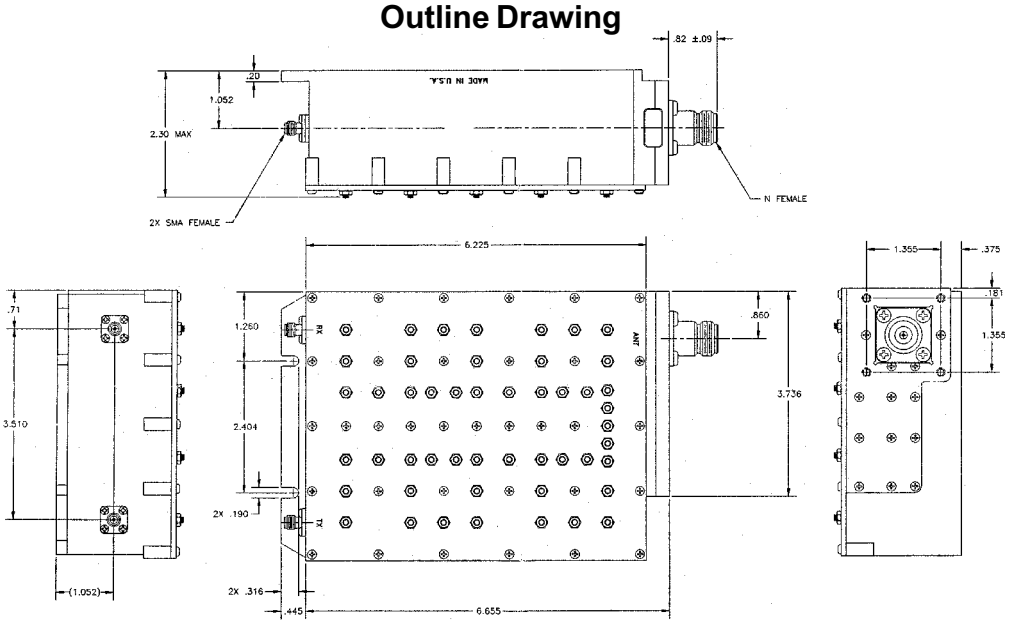
TX Band



Typical Insertion Loss and VSWR



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.

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