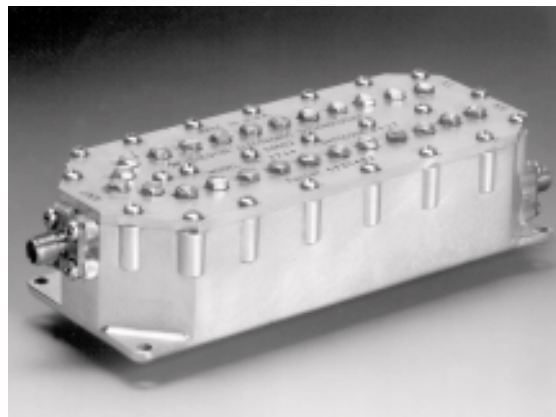


4745 A,B,C PCS DUPLEXER

Features:

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



Product Description:

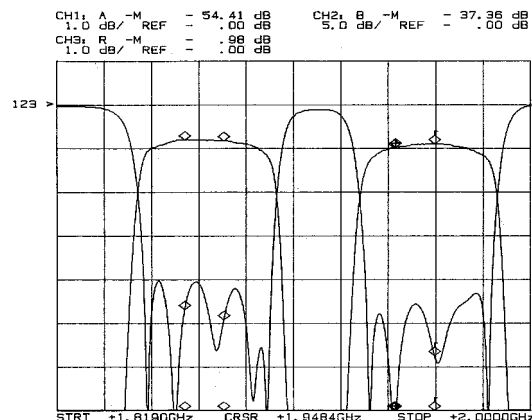
The 4745A, 4745B, and 4745C duplexers are designed for 30 MHz bandwidth, Personal Communication Systems (PCS) operating in Major Trading Areas (MTA), bands A and B and Basic Trading Areas (BTA), band C. All three models utilize common injection molded housing and are optimized for each specific frequency band. Based upon our patented injection molded technology, Teledyne is setting new standards for low cost, lightweight filters for cellular basestations. Custom designs are available for specific PCS applications while still maintaining the same low cost, lightweight features as the models featured here. Cross coupling techniques are often employed for increased rejection and size reduction. The 4745A, 4745B, and 4745C duplexers are available from stock and can be shipped within 24 hours.

TABLE OF SPECIFICATIONS

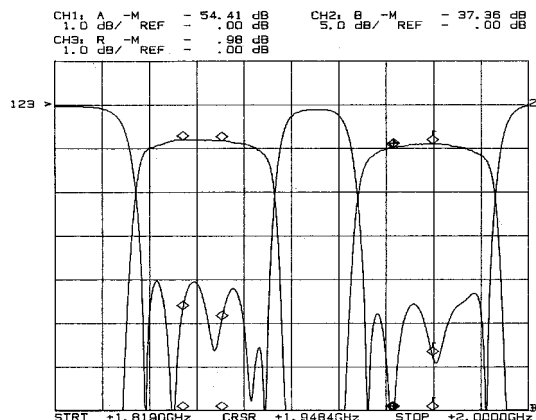
PARAMETER	FREQUENCY (MHz)			SPECIFICATIONS (GUARANTEED / TYPICAL)
Receive Band:	4745A	4745B	4745C	
Passband	1850 - 1865 MHz	1870 - 1885 MHz	1895 - 1910 MHz	
Insertion Loss	1850 - 1865 MHz	1870 - 1885 MHz	1895 - 1910 MHz	1.2 dB max. / 1.0 dB
Input / Output VSWR	1850 - 1865 MHz	1870 - 1885 MHz	1895 - 1910 MHz	1.50:1 max. / 1.35:1
Transmit Band:				
Passband	1930 - 1945 MHz	1950 - 1965 MHz	1975 - 1990 MHz	
Insertion Loss	1930 - 1945 MHz	1950 - 1965 MHz	1975 - 1990 MHz	1.2 dB max. / 1.0 dB
Input / Output VSWR	1930 - 1945 MHz	1950 - 1965 MHz	1975 - 1990 MHz	1.50:1 max. / 1.35:1
Interchannel Isolation:				
Tx to Rx	1850 - 1865 MHz	1870 - 1885 MHz	1895 - 1910 MHz	60 dB min. / 65 dB
Rx to Tx	1930 - 1945 MHz	1950 - 1965 MHz	1975 - 1990 MHz	60 dB min. / 65 dB
Weight				6.0 oz., 171.1 grams
Power Handling (CW)				35 watts
Operating Temperature				-35°C to +85°C
Storage Temperature				-50°C to +95°C

4745 A,B,C PCS DUPLEXER

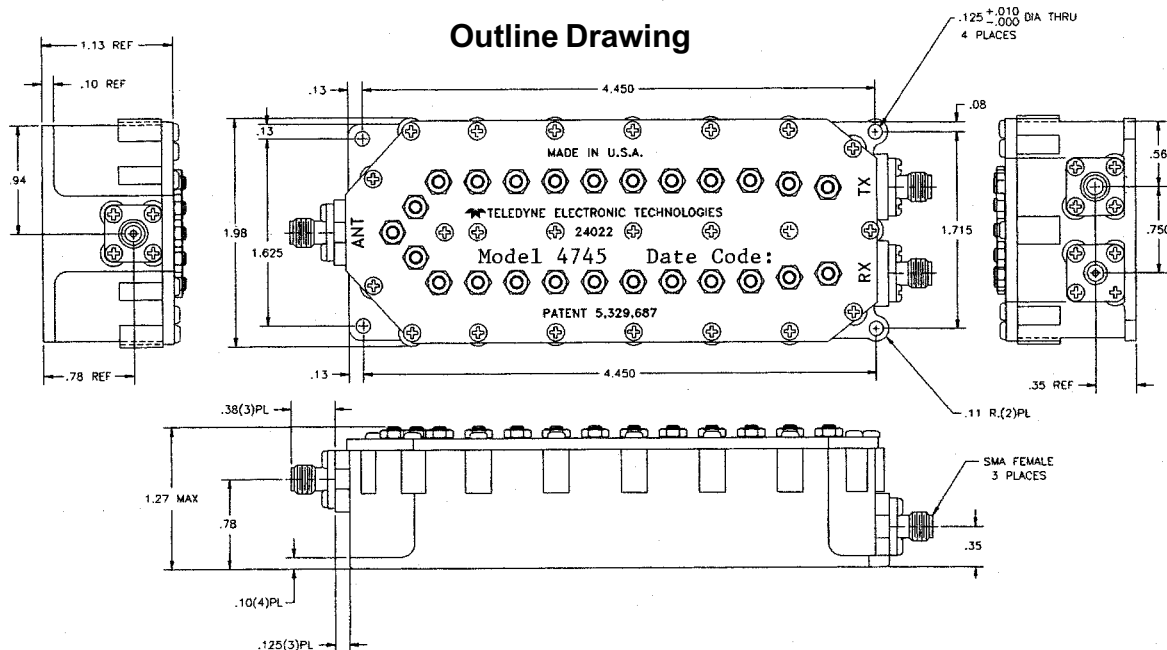
Typical Insertion Loss and VSWR



Typical Rx to Tx and Tx to Rx Rejection



Outline Drawing



Other filter designs available include: PCS, GSM 900, GSM 1800, GSM 1900, PDC, PHP, Cellular, and INMARSAT-M applications.

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