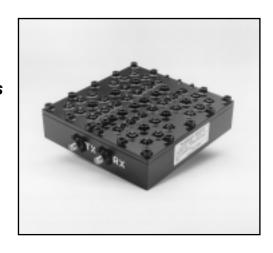
GSM-1800 Band Duplexer

- Passes GSM-1800 Receive / Transmit Bands
- High Isolation
- Low Insertion Loss
- Small Footprint
- Excellent Temperature Stability



DESCRIPTION

Narda West's GSM-1800 Band Duplexer provides highly selective receive / transmit combining. This duplexer is designed to pass the full GSM-1800 receive and transmit bands while providing more than 60 dB isolation. Out-of-band rejection is 60 dB minimum from DC to 1680

MHz and 60 dB from 1910 to 4000 MHz. It has a 1.0 dB maximum passband insertion loss with 0.7 dB typical. Power ratings are 100 watts CW, 400 watts peak with multi-carrier powers of 6 carriers at 10 watts each.

SPECIFICATIONS

MODEL NUMBER	DFD-01A-1718-01
PASSBAND RECEIVE TRANSMIT	1710 - 1785 MHz 1805 - 1880 MHz
PASSBAND INSERTION LOSS	1.0 dB MAX
PASSBAND LOSS VARIATION	0.6 dB MAX
PASSBAND RETURN LOSS	14 dB MIN
REJECTION ANTENNA TO RECEIVE DC - 1680 MHz TRANSMIT TO ANTENNA 1910 - 4000 MHz	60 dB MIN 60 dB MIN
ISOLATION RECEIVE TO TRANSMIT TRANSMIT TO RECEIVE	60 dB MIN 60 dB MIN
POWER HANDLING ¹ CW PEAK MULTI CARRIER ²	100 W 400 W 6 @ 10 W
OPERATING TEMP	0 TO +65°C
STORAGE TEMP	-20 TO +85°C
CONNECTORS	SMA FEMALE
SIZE	4.8 x 4.65 x 1.38" 121.9 x 118.1 x 35.1 mm

NOTES:

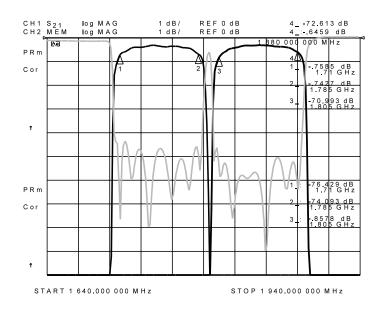
¹Power handling (max watts) includes simultaneous conditions of antenna VSWR \leq 2:1, altitude \leq 10,000 feet, and case temperature of \leq +50°C.

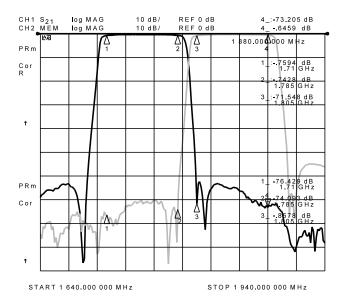
²MULTIPLE CARRIER is defined as the number of carriers, *n* each at SEPARATE frequencies within the transmit passband applied simultaneously at the power level, *p* as indicated, completing the formula:

 $n^2 x p = Peak Power Handling.$



TYPICAL MEASURED DATA





OUTLINE DRAWING

