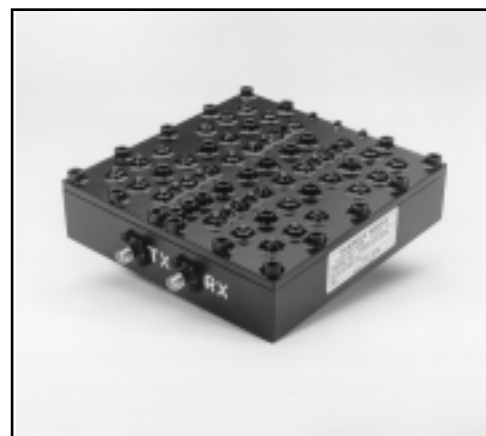


PCS Band Duplexer

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



DESCRIPTION

Narda's PCS Band Duplexer provides highly selective receive / transmit combining. It is designed to pass the full PCS receive and transmit bands while providing more than 60 dB isolation. Out-of-band rejection is 60 dB minimum from DC to 1825 MHz and 55 dB from 2015 to 4000 MHz. This duplexer 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. Passband return loss is specified at 14 dB maximum. The unit is provided with SMA female connectors. Type 'N' connectors are available as an option.

SPECIFICATIONS

MODEL NUMBER	SFD-01A-1819-09
PASSBAND RECEIVE TRANSMIT	1850 - 1910 MHz 1930 - 1990 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 TRANSMIT TO ANTENNA	DC - 1825 MHz 2015 - 4000 MHz
	60 dB MIN 55 dB MIN
ISOLATION RECEIVE TO TRANSMIT TRANSMIT TO RECEIVE	60 dB MIN 60 dB MIN
POWER HANDLING¹ CW PEAK MULTI CARRIER ²	100 W 400 W 6 @ 10 W
MONITOR PORT	N/A
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

**AVAILABLE
FROM STOCK**

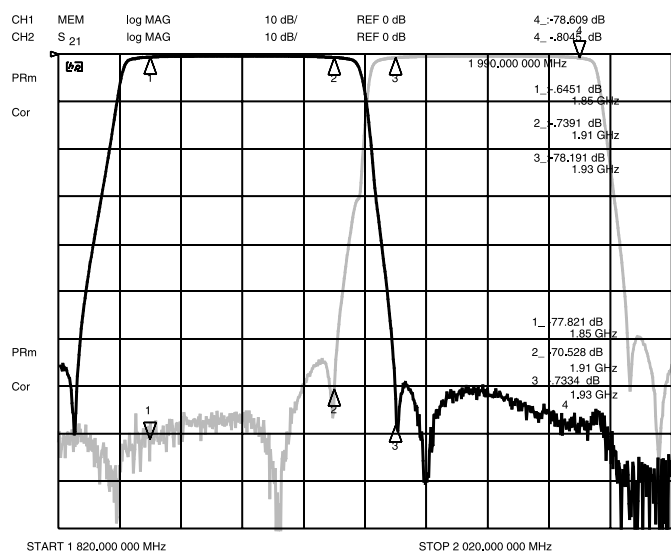
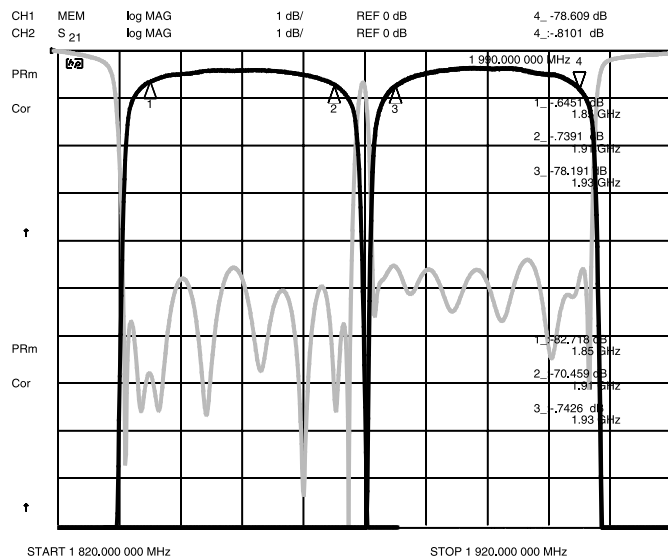
NOTES:

¹Power handling (max watts) includes simultaneous conditions of antenna VSWR ≤ 2:1, altitude ≤10,000 feet, and case temperature of ≤+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:

$$n^2 \times p = \text{Peak Power Handling.}$$

TYPICAL MEASURED DATA



OUTLINE DRAWING

