

PCS Band Transmit Filter

- **Passes Full PCS Band Transmit**
- **High Rejection At Rx Frequencies**
- **Low Insertion Loss**
- **Small Footprint**
- **Excellent Temperature Stability**



DESCRIPTION

Narda's PCS Fullband Transmit Filter provides highly selective Transmit channel filtering. It is designed to pass the full PCS transmit band of 1930 to 1990 MHz while providing more than 60 dB rejection over the 1850 to 1910 MHz receive band. Out-of-band rejection is greater

than 55 dB from 2015 to 4000 MHz. In addition, the device provides more than 60 dB rejection from DC to 1910 MHz. This filter has a 1.0 dB maximum passband insertion loss with 0.7 dB typical, and comes in a compact, mountable package. It is provided with SMA female connectors.

SPECIFICATIONS

MODEL NUMBER	SFB-01A-1919-02
PASSBAND	1930 - 1990 MHz
PASSBAND INSERTION LOSS	1.0 dB MAX
PASSBAND LOSS VARIATION	0.6 dB MAX
PASSBAND RETURN LOSS	14 dB MIN
REJECTION DC - 1910 MHz 2015 - 4000 MHz	60 dB MIN 55 dB MIN
POWER HANDLING¹ 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	4.46 x 2.35 x 1.13" 113.3 x 59.7 x 28.8 mm

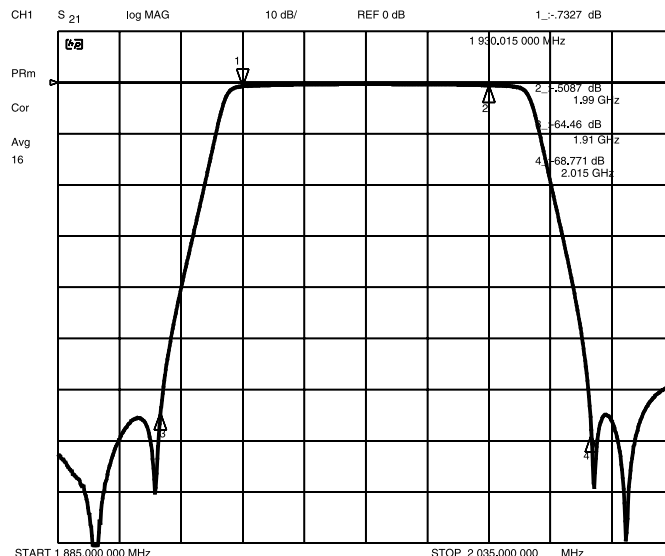
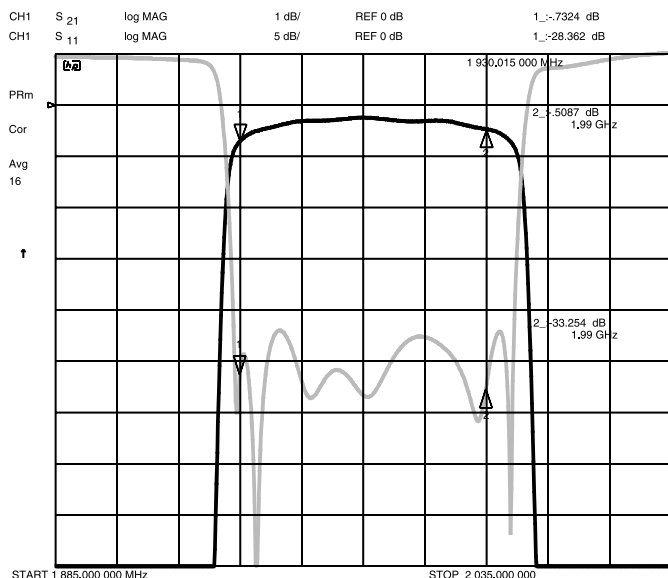
NOTES:

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

