GSM-1800 Band Transmit Filter

- ***Passes Full GSM-1800 Band Transmit***
- ***High Rejection at Rx Frequencies***
- ***Low Insertion Loss***
- ***Small Footprint***
- ***Excellent Temperature Stability***

DESCRIPTION

Narda West's GSM1800 Transmit Filter provides highly selective receive channel filtering. It is designed to pass the full GSM1800 transmit band of 1805 to 1880 MHz while providing more than 60 dB rejection over the 1710 to 1785 receive band. Out-of-band rejection is greater than 55 dB from 1910 to 4000 MHz. In addition, this filter provides more than 60 dB rejection from DC to 1785 MHz. It has a 1.0 dB maximum passband insertion loss with 0.7 dB typical and These comes in a compact, mountable package. The unit is provided with SMA female connectors.

SPECIFICATIONS

MODEL NUMBER	DFB-01A-1818-01
PASSBAND	1805 - 1880 MHz
PASSBAND INSERTION LOSS	1.0 dB MAX
PASSBAND LOSS VARIATION	0.6 dB MAX
PASSBAND RETURN LOSS	14 dB MIN
REJECTION DC - 1785 MHz 1910 - 4000 MHz	 60 dB MIN 55 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	4.46" x 2.35" x 1.13" 113.3 x 59.7 x 28.8 mm

NOTES:

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

[2]MULTIPLE 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:

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

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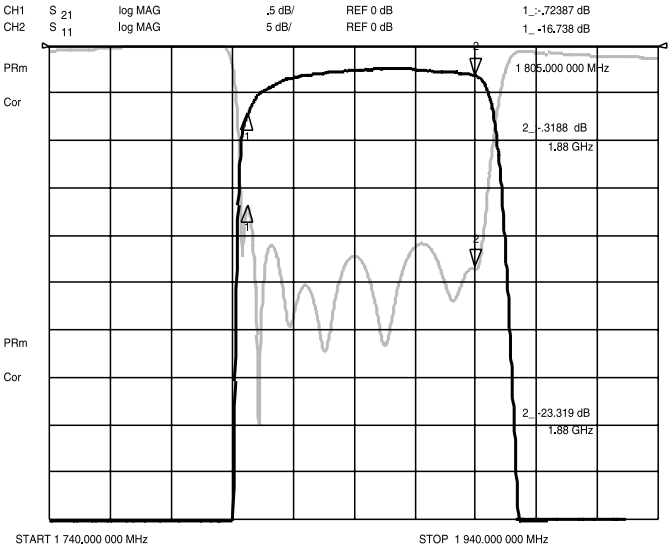
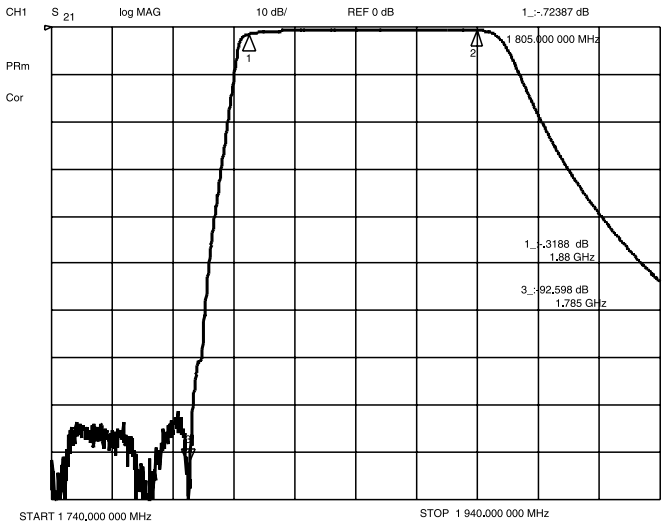
TYPICAL MEASURED DATA





OUTLINE DRAWING