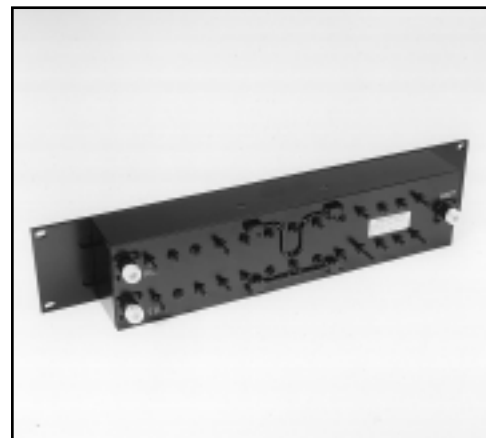


EGSM Band Duplexer

- **Passes Extended GSM Rx / Tx Bands**
- **High Isolation**
- **Low Insertion Loss**
- **Standard EIA Rack Mount**
- **Excellent Temperature Stability**



DESCRIPTION

Narda West's EGSM Band Duplexer provides highly selective receive / transmit combining. This duplexer is designed to pass the extended GSM receive and transmit bands while providing more than 60 dB isolation. It has a 1.5 dB maximum passband insertion loss with 1.0 dB

typical. Specifically designed for high power applications, this duplexer has power ratings of 400 watts CW, 600 watts peak with multi-carrier powers of 8 carriers at 10 watts each, and is provided with Type 'N' female connectors.

SPECIFICATIONS

MODEL NUMBER	GFD-21A-8896-01
PASSBAND RECEIVE TRANSMIT	880 - 915 MHz 925 - 960 MHz
PASSBAND INSERTION LOSS	1.5 dB MAX
PASSBAND LOSS VARIATION	1.0 dB MAX
PASSBAND RETURN LOSS	14 dB MIN
REJECTION ANTENNA TO RECEIVE DC - 840 MHz TRANSMIT TO ANTENNA 1010 - 2700 MHz	65 dB MIN 65 dB MIN
ISOLATION RECEIVE TO TRANSMIT TRANSMIT TO RECEIVE	65 dB MIN 65 dB MIN
POWER HANDLING ¹ CW PEAK MULTI CARRIER ²	400 W 600 W 8 @ 10 W
MONITOR PORT	CONTACT FACTORY
OPERATING TEMP	0 TO +65°C
STORAGE TEMP	-20 TO +85°C
CONNECTORS	TYPE 'N' FEMALE
SIZE	19" x 2.49" x 2U 482.6 mm x 63.2 mm x 2U

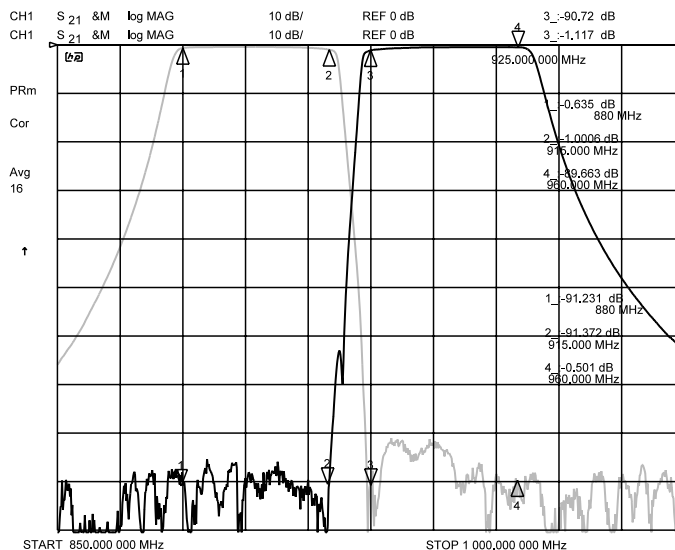
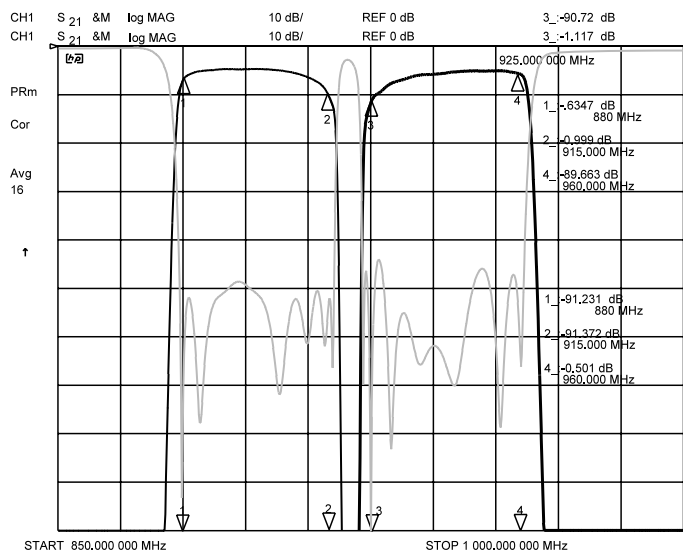
NOTES:

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

