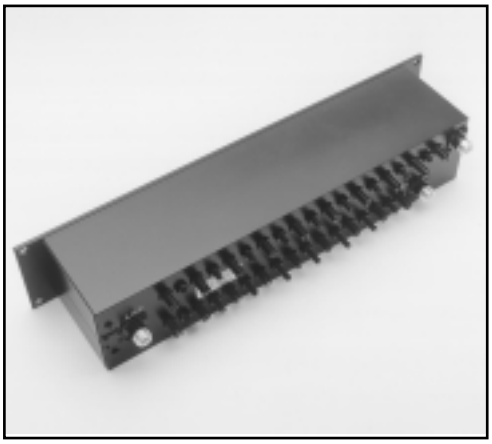
ETACS Band Duplexer



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

DESCRIPTION

Narda West's Extended TACS Band Duplexer provides highly selective receive / transmit combining. This duplexer is designed to pass the ETACS receive and transmit bands while providing more than 60 dB isolation. The units have a 1.0 dB maximum passband insertion loss with 0.7 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 10 carriers at 8 watts each and comes with Type 'N' female connectors.

SPECIFICATIONS

MODEL NUMBER	EFD-21A-8795-04
PASSBAND RECEIVE TRANSMIT	 872 - 905 MHz 917 - 950 MHz
PASSBAND INSERTION LOSS	1.0 dB MAX
PASSBAND LOSS VARIATION	0.5 dB MAX
PASSBAND RETURN LOSS	14 dB MIN
REJECTION ANTENNA TO RECEIVE DC - 830 MHz TRANSMIT TO ANTENNA 970 - 1500 MHz	 65 dB MIN 65 dB MIN
ISOLATION RECEIVE TO TRANSMIT TRANSMIT TO RECEIVE	 60 dB MIN 60 dB MIN
POWER HANDLING[1] CW PEAK MULTI CARRIER[2]	 400 W 600 W 10 @ 8 W
OPERATING TEMP	0 TO +65°C
STORAGE TEMP	-20 TO +85°C
CONNECTORS	TYPE 'N' FEMALE
SIZE	19" x 4.19" x 2U 482.6 mm x 106.4mm x 2U

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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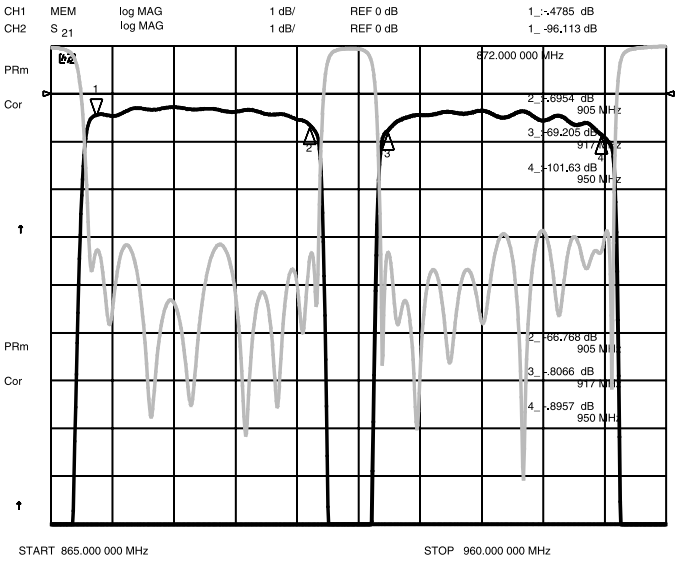
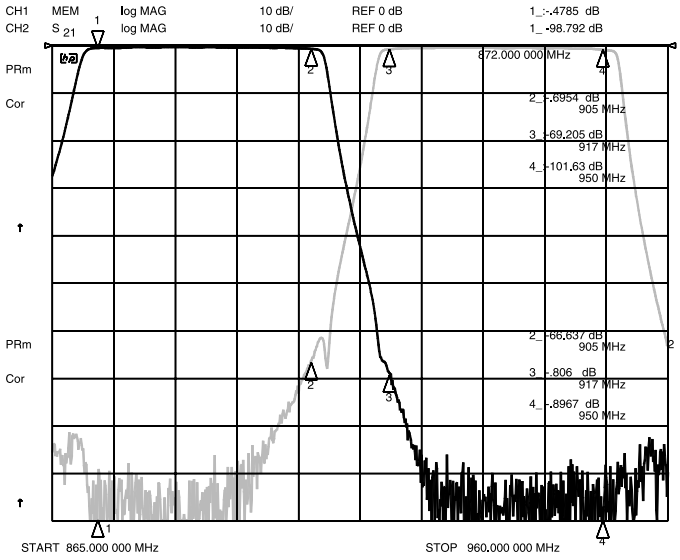
TYPICAL MEASURED DATA





OUTLINE DRAWING