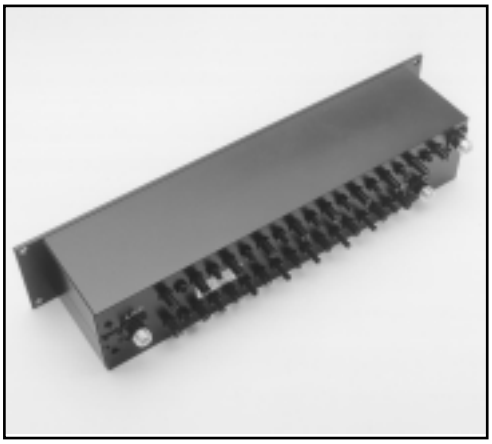
AMPS B Band Duplexer

- ***Passes AMPS B Band Rx / Tx***
- ***High Isolation***
- ***Low Insertion Loss***
- ***Standard EIA Rack Mountable***
- ***Excellent Temperature Stability***



DESCRIPTION

Narda West's AMPS B Band Duplexer provides highly selective receive / transmit combining. This duplexer is designed to pass the AMPS B receive bands of 835 to 849 and the transmit band of 880 - 894 MHz while providing more than 75 dB isolation. The unit has a 1.0 dB maximum passband insertion loss with 0.7 dB typical. Specifically designed for high power applications, this duplexer has power ratings are 400 watts CW, 600 watts peak, with multi-carrier powers of 8 carriers at 10 watts each. It is provided with Type 'N' female connectors.

SPECIFICATIONS

MODEL NUMBER	AFD-21A-8389-01
PASSBAND	
RECEIVE	835 - 849 MHz
TRANSMIT	880 - 894 MHz
PASSBAND INSERTION LOSS	1.0 dB MAX
PASSBAND LOSS VARIATION	0.4 dB MAX
PASSBAND RETURN LOSS	14 dB MIN
REJECTION	
ANTENNA TO RECEIVE DC - 800 MHz	65 dB MIN
TRANSMIT TO ANTENNA 915 - 1500 MHz	65 dB MIN
ISOLATION	
RECEIVE TO TRANSMIT	75 dB MIN
TRANSMIT TO RECEIVE	75 dB MIN
POWER HANDLING[1]	
CW	400 W
PEAK	600 W
MULTI CARRIER[2]	8 @ 10 W
MONITOR PORT	50 ±5 dB
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

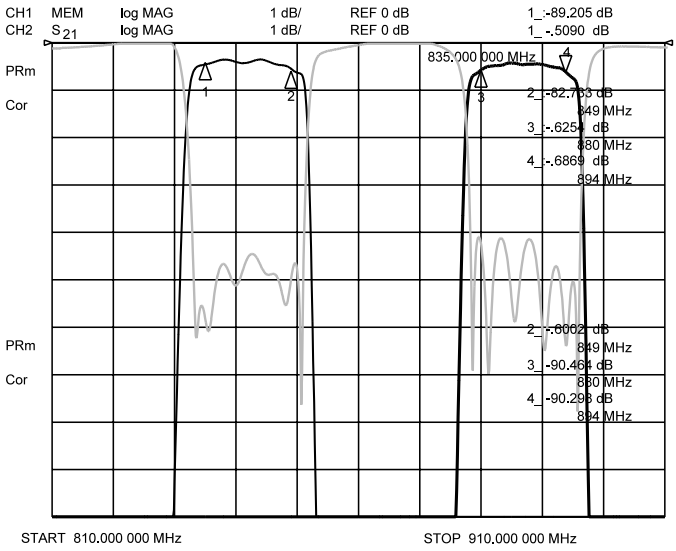
NOTES:

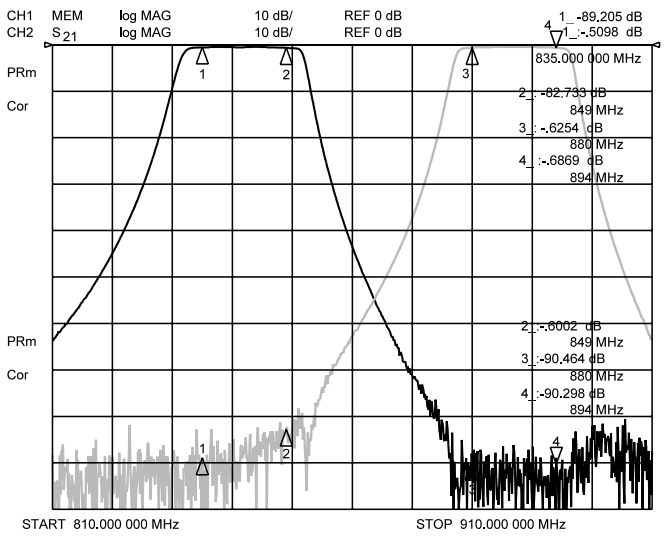
[1]Power handling (max watts) includes simultaneous conditions of antenna VSWR ≤ 2:1, altitude ≤10,000 feet, and case temperature of ≤+50°C.

[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.

TYPICAL MEASURED DATA





OUTLINE DRAWING