



Model Number U5929 UHF Diplexer

Rev.C
5/2/05



Delta Microwave developed the U5929 diplexer for the shipboard OE-82 WSC system. Each diplexer is 100% tested for power handling, IMP's and leak rate. The housing is fabricated from extruded aluminum that is machined, and dip-brazed for maximum performance. Integrated lowpass filters on both the TX, and RX channels allow the diplexer to achieve superior out of band performance. Delta has manufactured diplexers for the WSC system for over 30 years.

Features:

- Cavity Design
- Low Loss
- High Power Handling
- Low IMP

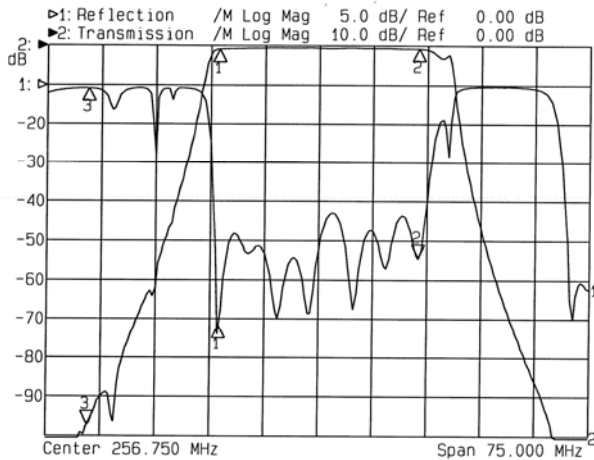
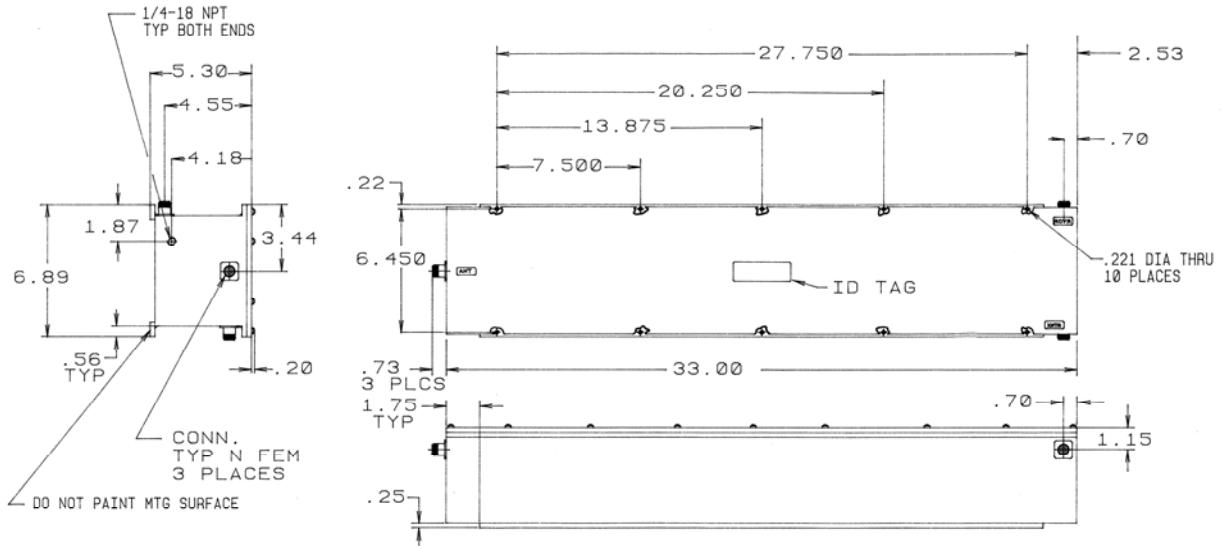
Applications:

- Shipboard
- Test Equipment

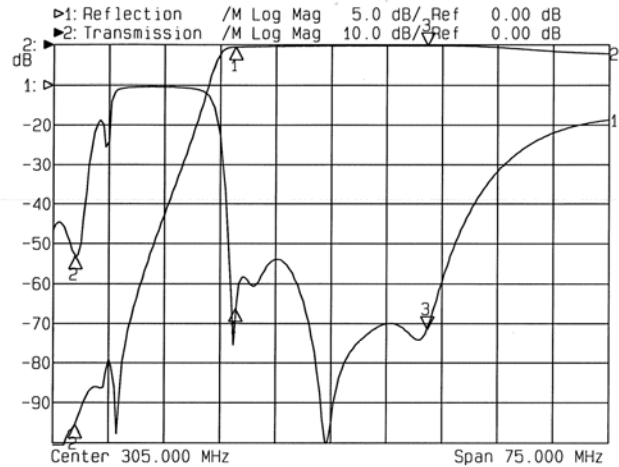
PARAMETER	TRANSMIT	RECEIVE
Passband	292.2 to 318 MHz	243.0 to 270.5 MHz
Insertion Loss	0.85 dB maximum	1.0 dB maximum
VSWR	1.2:1 maximum	1.5:1 maximum
Power handling	400W CW & 800 W PEP	100 mW CW
Impedance	50 Ohms	50 Ohms
Interchannel Isolation	90 dB at Rx Frequencies	100 dB at Tx Frequencies
Receive Rejection Parameters		
	FREQUENCY	REJECTION LEVEL
	DC to 205 MHz	60 dB minimum
	205 to 225 MHz	95 dB minimum
	225 to 243.0 MHz	As high as practical consistent with defined insertion loss levels
	270.5 to 285 MHz	As high as practical consistent with defined insertion loss levels
	285 to 292.2 MHz	60 dB minimum
	292.2 to 318 MHz	100 dB minimum
	318 MHz to 1.0 GHz	60 dB minimum
	1.0 to 2.0 GHz	40 dB minimum
	2.0 to 3.0 GHz	20 dB minimum
	3.0 to 10 GHz	40 dB minimum
Transmit Rejection Parameters		
	876.6 TO 954 MHz (3rd harmonic of Tx)	30 dB minimum
	243.0 to 270.5 MHz	90 dB minimum



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1: Mkr (MHz)	dB	2: Mkr (MHz)	dB
1: 243.0000	-30.904	1: 243.0000	-0.940
2: 270.5000	-22.143	2: 270.5000	-0.822
3: 225.0000	-0.416	3: 225.0000	-97.092



1: Mkr (MHz)	dB	2: Mkr (MHz)	dB
1: 292.2000	-28.163	1: 292.2000	-0.611
2: 270.5000	-21.543	2: 270.5000	-95.430
3: 318.0000	-30.710	3: 318.0000	-0.250



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