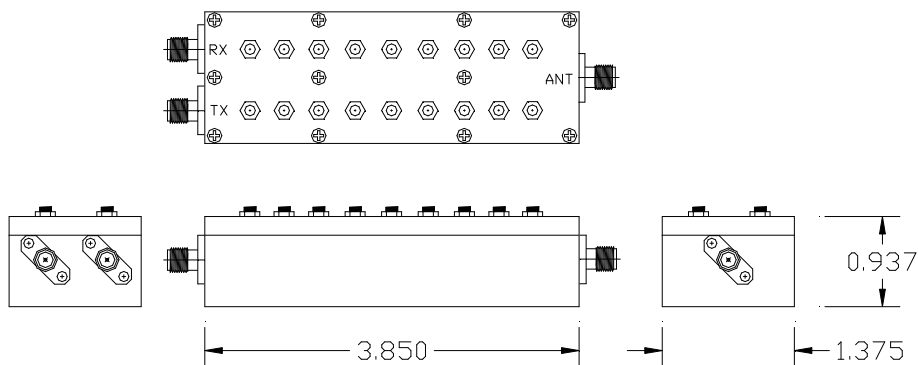




## S-BAND Diplexer

**P/N MSS-11-2524/2620-48**



TRANSMIT INPUT TO ANTENNA OUTPUT			
PARAMETER	SYMBOL	SPECIFICATION VALUE / LIMIT	COMMENTS
Center Frequency	Fc	2524 MHz	(Ref.)
Lower Pass Frequency	Fl	2500 MHz	1 dB relative to I.L.
Upper Pass Frequency	Fh	2548 MHz	1 dB relative to I.L.
Band Width, 1dB	BW	48 MHz	Minimum
Insertion Loss	I.L.	2.5 dB	Maximum from Fl to Fh
Impedance	Z	50 Ohms	
Group Delay	GD	25 Nanoseconds	Over any 6 MHz Bandwidth

ANTENNA INPUT TO RECEIVE OUTPUT			
PARAMETER	SYMBOL	SPECIFICATION VALUE / LIMIT	COMMENTS
Center Frequency	Fc	2620 MHz	(Ref.)
Lower Pass Frequency	Fl	2596 MHz	1 dB relative to I.L.
Upper Pass Frequency	Fh	2644 MHz	1 dB relative to I.L.
Band Width, 1dB	BW	48 MHz	Minimum
Pass Band Ripple	R	1.0 dB	Maximum
Insertion Loss	I.L.	1.5 dB ( GOAL )	Maximum from Fl to Fh
Impedance	Z	50 Ohms	
Group Delay	GD	25 Nanoseconds	Over any 6 MHz Bandwidth



## S-BAND Diplexer

P/N AUI-11-2524/2620-48

( Continued )

FILTER REJECTION REQUIREMENTS			
PORT TO PORT	SYMBOL	FREQUENCY LIMIT	REJECTION, MINIMUM RELATIVE TO PASS BAND I.L.
Transmit to Antenna	Fs ( Low )	50 MHz to 2128 MHz	40 dB
Transmit to Antenna	Fs ( Low )	2400 MHz	20 dB
Transmit to Antenna	Pass Band	2500 MHz to 2548 MHz	Reference:
Transmit to Antenna	Fs ( High )	2596 MHz to 2644 MHz	40 dB
Transmit to Antenna	Fs ( High )	3000 MHz to 4000 MHz	40 dB
Transmit to Antenna	Fs ( High )	4000 MHz to 5400 MHz	30 dB
Antenna to Receive	Fs ( Low )	50 MHz to 2204 MHz	40 dB
Antenna to Receive	Fs ( Low )	2500 MHz to 2548 MHz	40 dB
Antenna to Receive	Pass Band	2596 MHz to 2644 MHz	Reference:
Antenna to Receive	Fs ( Low )	2744 MHz	20 dB
Antenna to Receive	Fs ( High )	3000 MHz to 4000 MHz	40 dB
Antenna to Receive	Fs ( High )	4000 MHz to 5400 MHz	30 dB
Transmit to Receive		2500 MHz to 2548 MHz	40 dB
Transmit to Receive		2596 MHz to 2644 MHz	40 dB

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