

TS7010

PowerMatch™
Absorptive Diplexer



FEATURES

- 1.5 dB insertion loss
- 75 dB stopband rejection
- VSWR < 1.5
- 100 W CW power handling



DESCRIPTION

The TS7010 is an absorptive bandpass/bandpass diplexer that is typically used to combine two transceivers to a common antenna. Its absorptive property provides a 50-ohm impedance match to your amplifier to minimize reflected power and maximize stopband rejection under all load conditions.

RF PERFORMANCE

Parameter	Sym	Min	Typ	Max	Units	Comments
Impedance	Z_0		50		Ω	
Channel 1 3-dB Bandwidth	BW_1		5.3		MHz	
Channel 2 3-dB Bandwidth	BW_2		15		MHz	
Channel Passband Insertion Loss	IL_p		1.35		dB	
Channel-to-Channel Isolation	ISO	55	75		dB	
Passband CW Power Handling	$P_{IN,P}$	100			W	
Stopband CW Power Handling	$P_{IN,S}$	20			W	
VSWR			1.4	1.7		

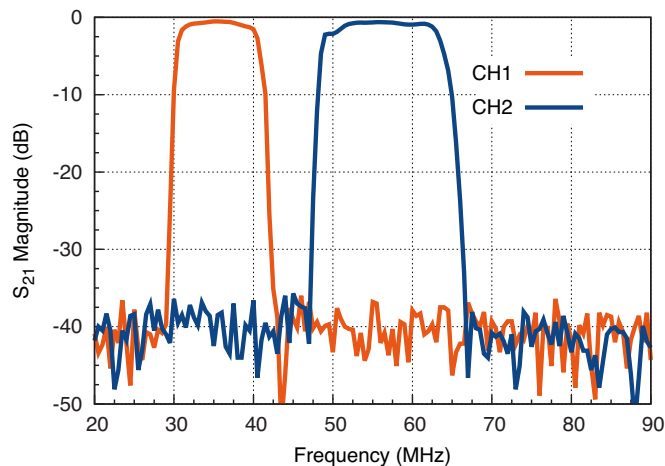


Fig. 1 : Typical measured S_{21} response

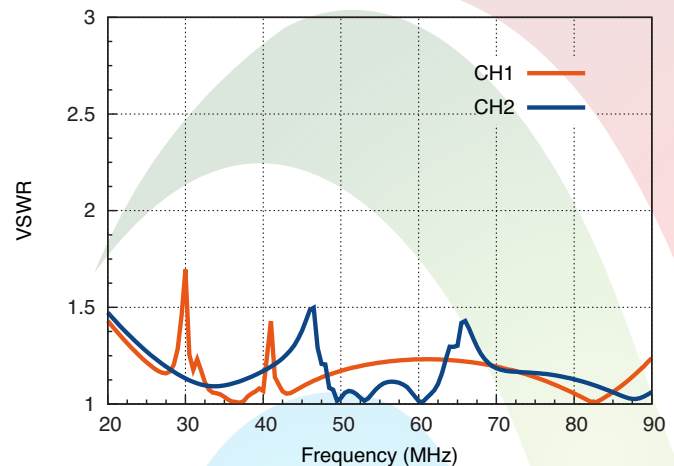


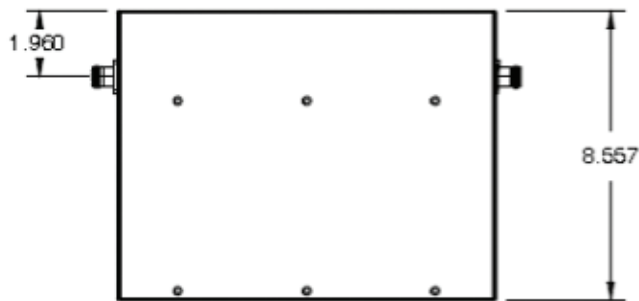
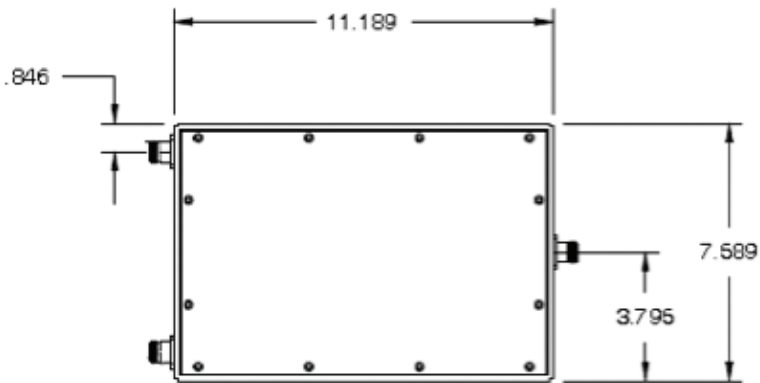
Fig. 2 : Typical measured VSWR response

TS7010

PowerMatch™
Absorptive Diplexer



MECHANICAL



Product is shown with type-N(f) connectors. Other connector styles are available upon request. All dimensions are in inches.