- **44.0 MHz IF SAW Filter / 5.60 MHz Bandwidth**
- **Revision 0: 17 March 2008**

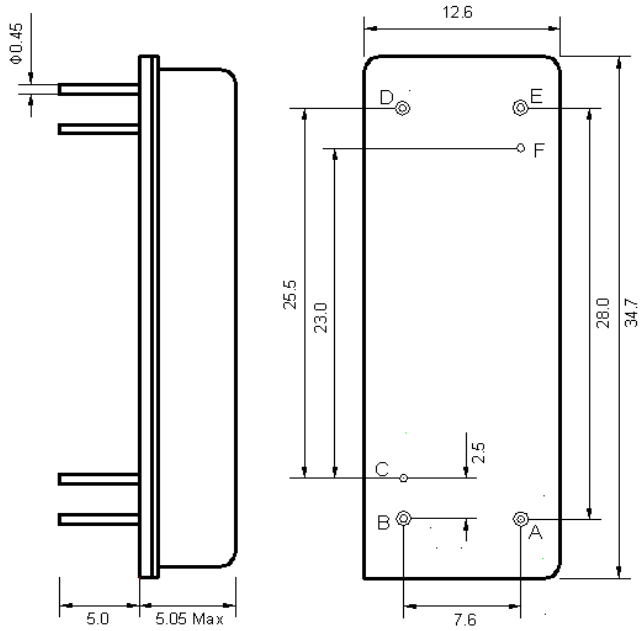
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Operation Temperature Range	°C	-30	-	80
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended)(1)	Ω	-	50	-
Load Impedance (single ended)(1)	Ω	-	50	-
Package type & size	F			
Length x Width	mm²	-	34.7 x 12.6	-
Height	mm	-	-	5.05

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Center Frequency (Fo)	MHz	43.95	44.0	44.05
Insertion Loss at Fo	dB	-	24.5	26.5
Amplitude Ripple Variation at Fo ± 2.69 MHz	dB_{p-p}	-	0.6	0.8
Group Delay Variation at Fo ± 2.69 MHz	nsec	-	100	150
Absolute Delay at Fo	µsec	-	4.07	-
Temperature Coefficient	ppm/°C	-	-94	-
Bandwidth at –1.0 dB	MHz	5.40	5.60	-
Bandwidth at –3.0 dB	MHz	-	5.75	-
Bandwidth at –40.0 dB	MHz	-	6.44	6.7
Ultimate Rejection	dB	50	55	-
Relative Attenuation				
39.75MHz	dB	50	55	
47.25MHz	dB	50	55	

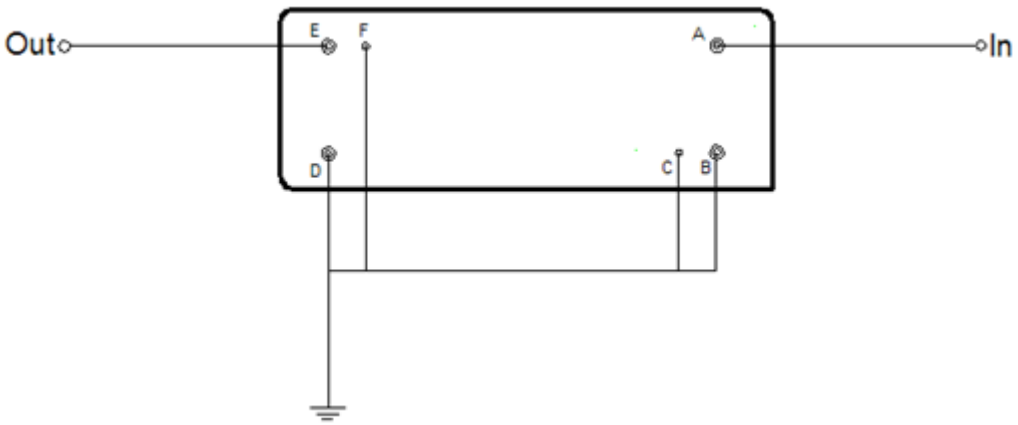
Notes : (1) With Matching Network (Ref. Testing Environment Circuit as shown below).
Those impedances could be modified with different impedance values and/or structures, if necessary.

Package Dimensions



Pin Description	
B, C, D, F	Ground
A	Input
E	Output

Testing Environment

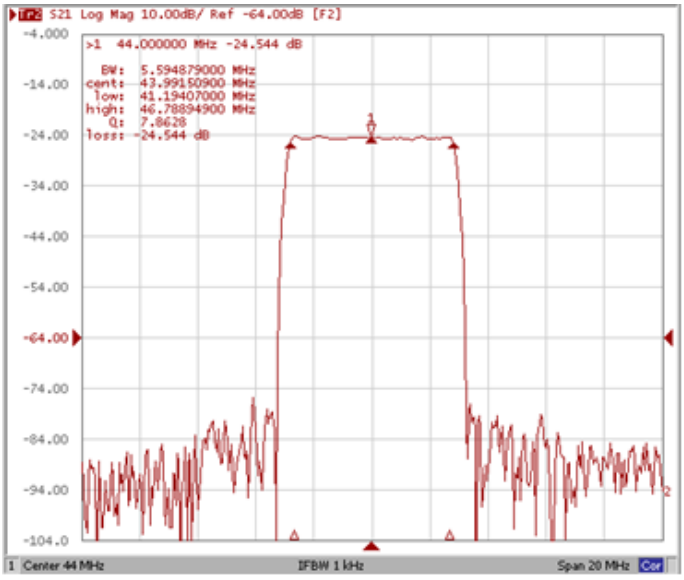


Source & Load Impedance: 50 Ω

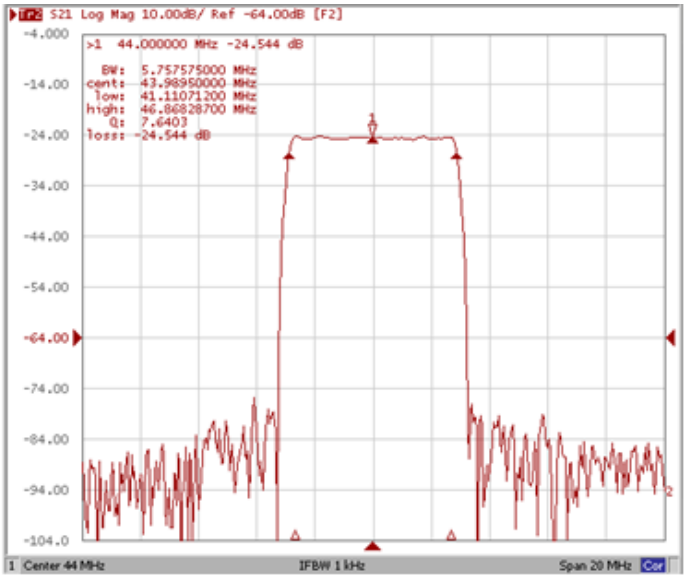
Frequency Characteristics

Frequency Response

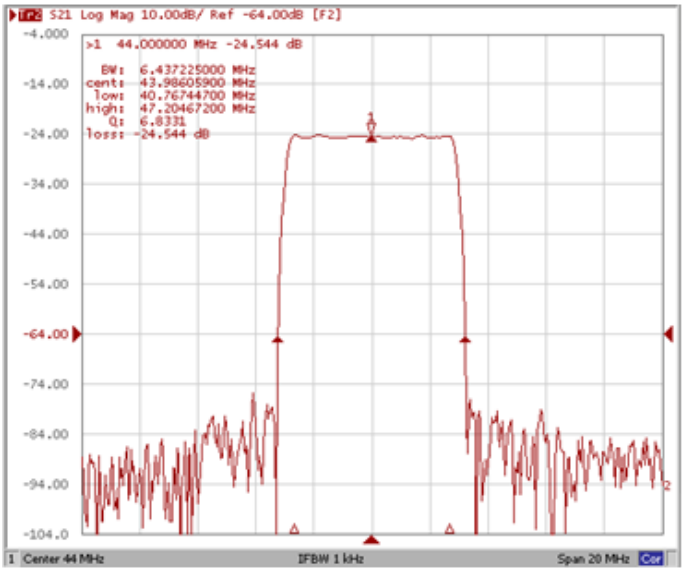
Bandwidth at –1.0 dB



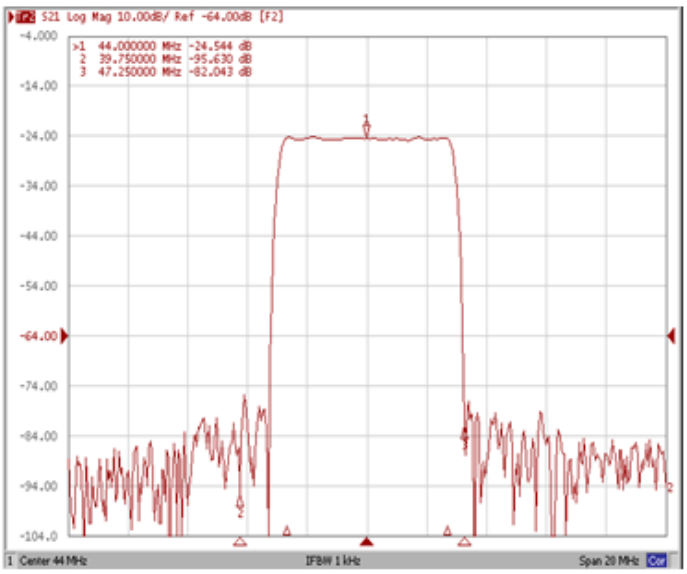
Bandwidth at –3.0 dB



Bandwidth at –40.0 dB

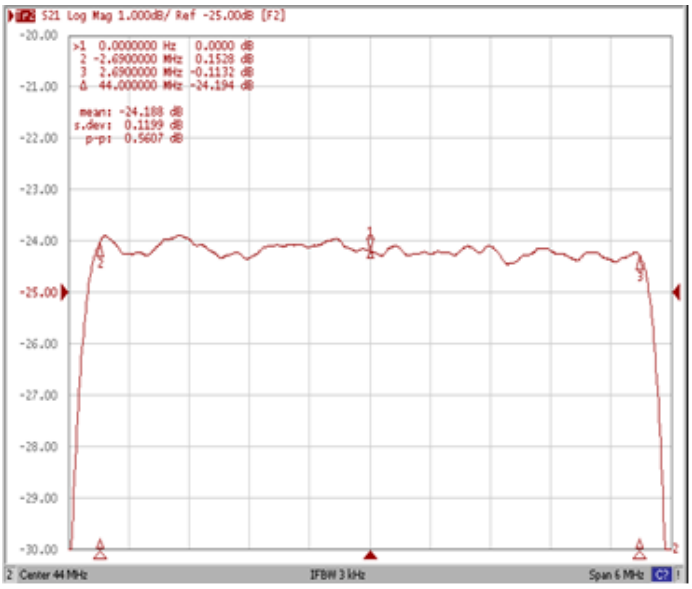


Attenuation 39.75 / 47.25MHz

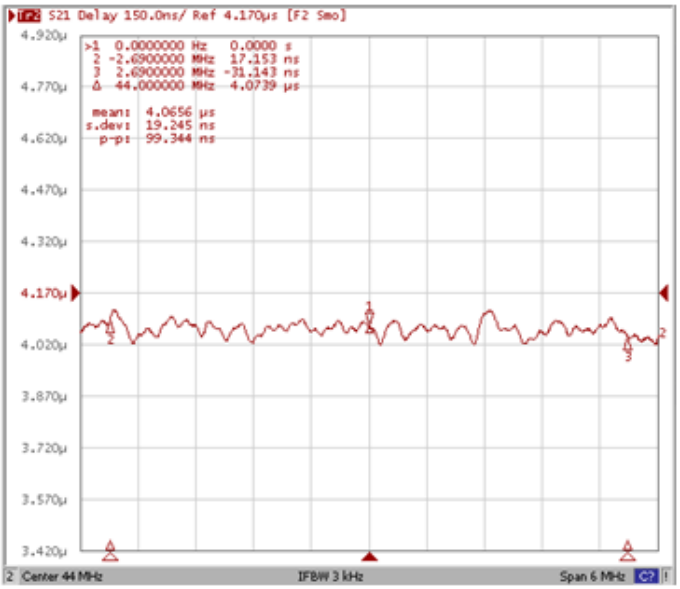


Frequency Response

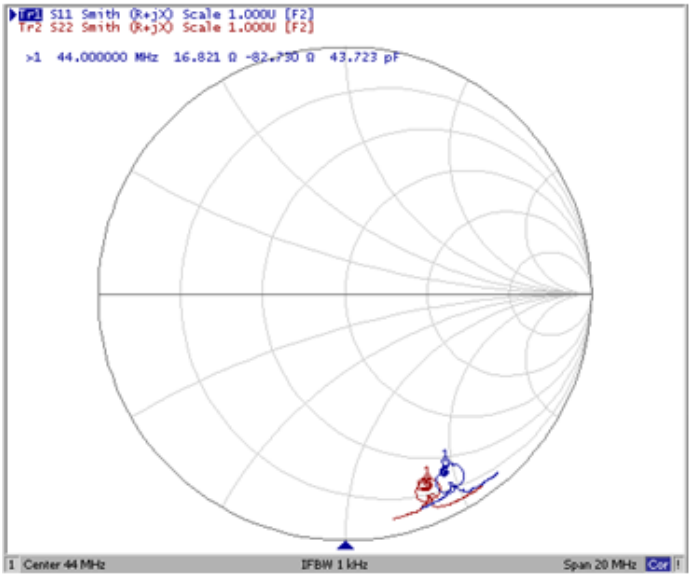
Ripple Variation Fo±2.69MHz



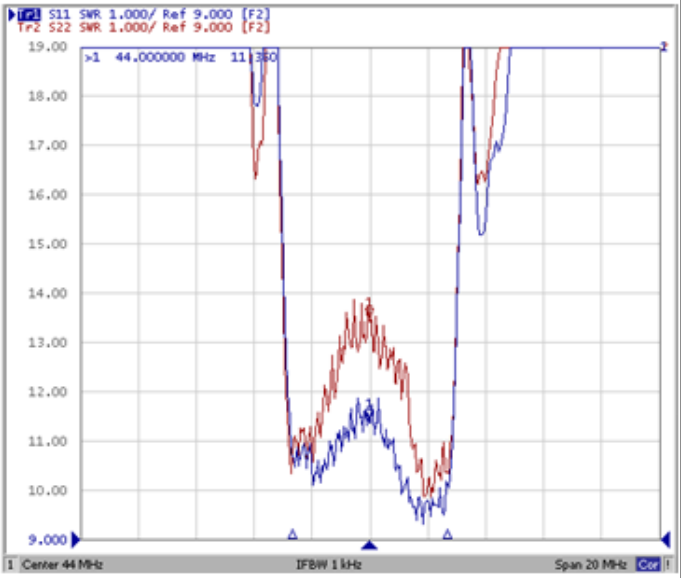
Group Delay Variation at Fo±2.69MHz



Smith Chart



SWR



Transko Electronics, Inc. 3981 E. Miraloma Ave., Anaheim CA 92806 USA
Tel: 714-528-8000 Fax: 714-528-8017 Website: www.transko.com E-mail: sales@transko.com