- **140.00MHz IF SAW Filter / 9.25 MHz Bandwidth**
- **Revision 0: 5 June 2009**

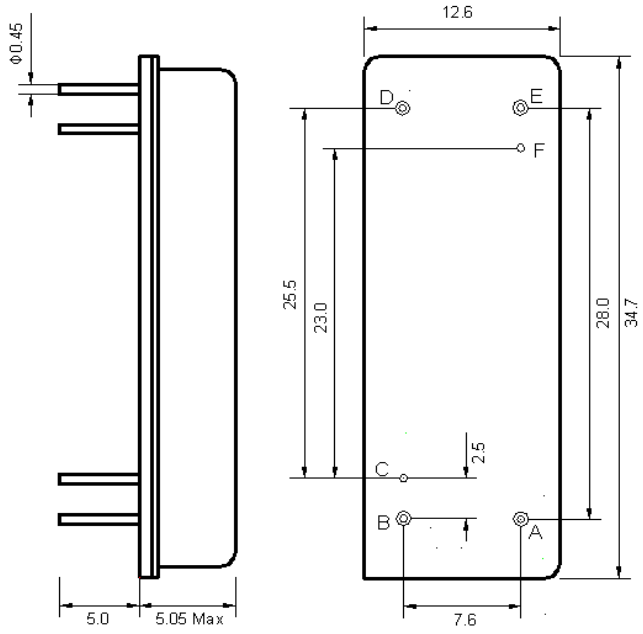
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Operation Temperature Range	°C	-	25	-
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	-	140.0	-
Insertion Loss at Fo	dB	-	25.6	28.0
Group Delay Variation (Fo±4.35MHz)	ns	-	49	100
Absolute Delay	us	-	4.21	-
Passband Ripple (Fo±4.35MHz)	dB	-	0.55	1.00
Bandwidth at -1dB	MHz	9.10	9.25	-
Bandwidth at -3dB	MHz	-	9.45	9.70
Bandwidth at -15dB	MHz	-	9.95	10.10
Bandwidth at -40dB	MHz	-	10.30	10.50
Bandwidth at -50dB	MHz	-	10.40	10.70
Ultimate Rejection	dB	50	55	-
Temperature Coefficient	ppm/°C	-	-20	-

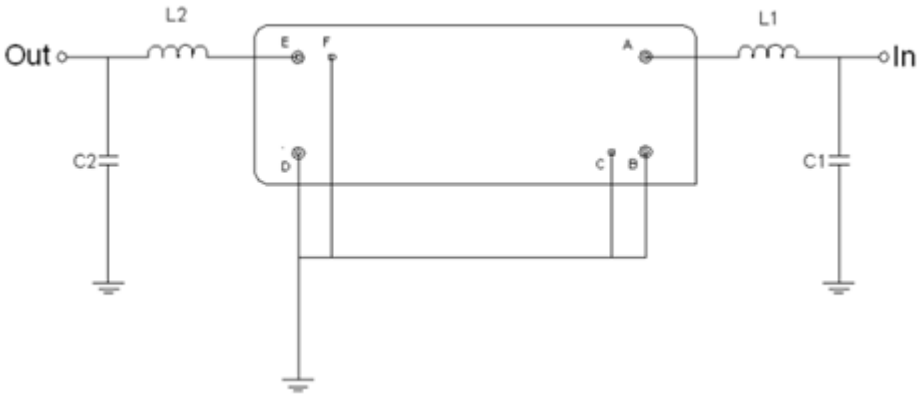
Notes : (1) With Matching Network (Ref. Testing Environment Circuit as shown below).
Those impedances could be modified with different impedance values and/or structures, if necessary.

Package Dimensions



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

Testing Environment



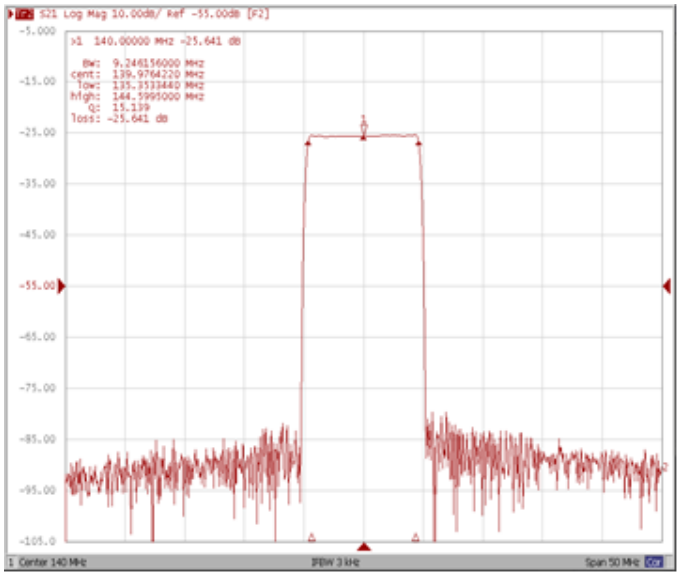
Test Fixture & Values	
Input	L1=33 nH , C1=51 pF
Output	L2=33 nH , C2=47 pF
Source/Load Impedance	50 Ω

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

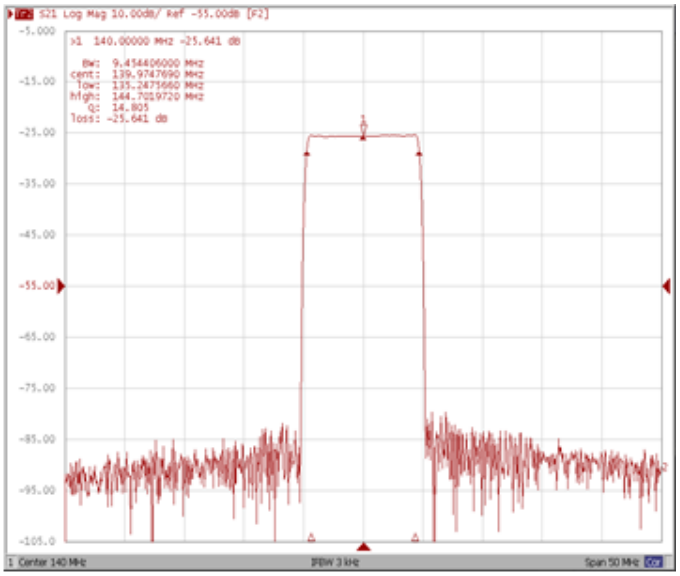
Frequency Characteristics

Frequency Response

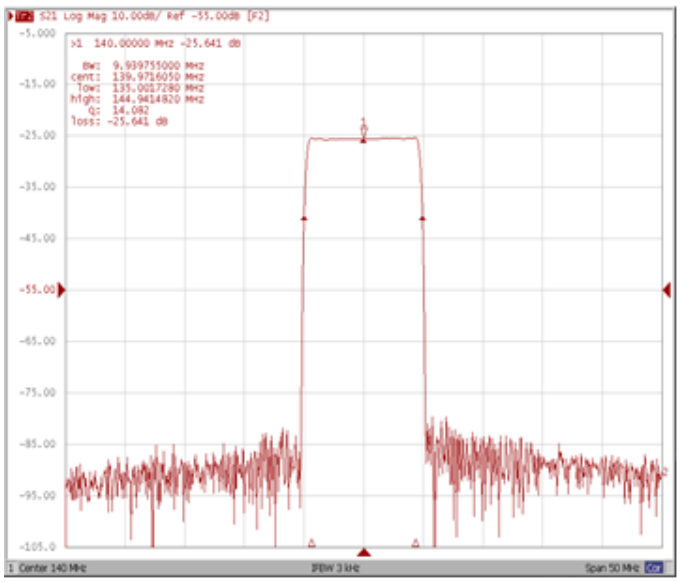
Bandwidth at –1.0 dB



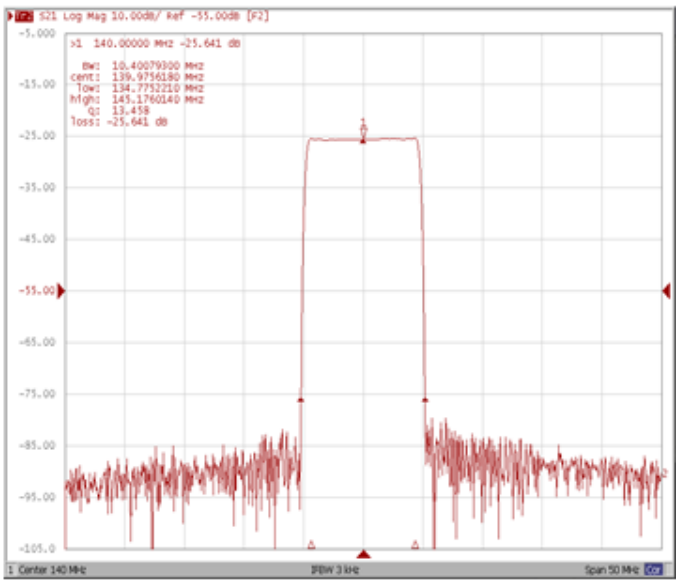
Bandwidth at –3.0 dB



Bandwidth at –15.0 dB

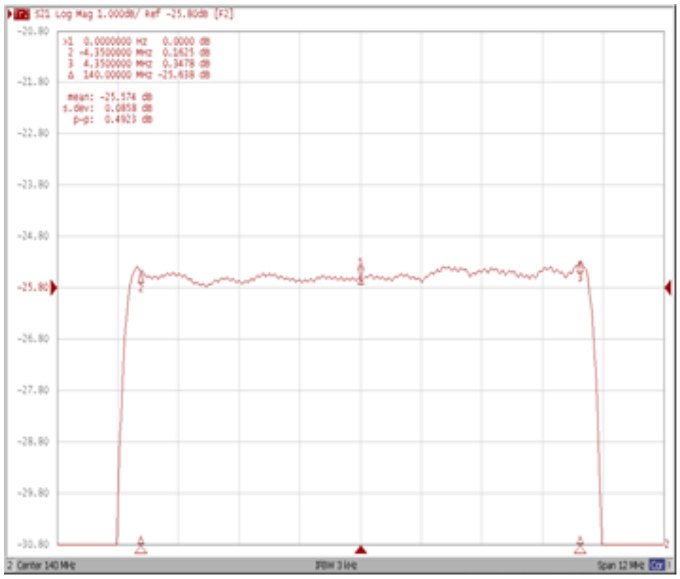


Bandwidth at –50.0 dB

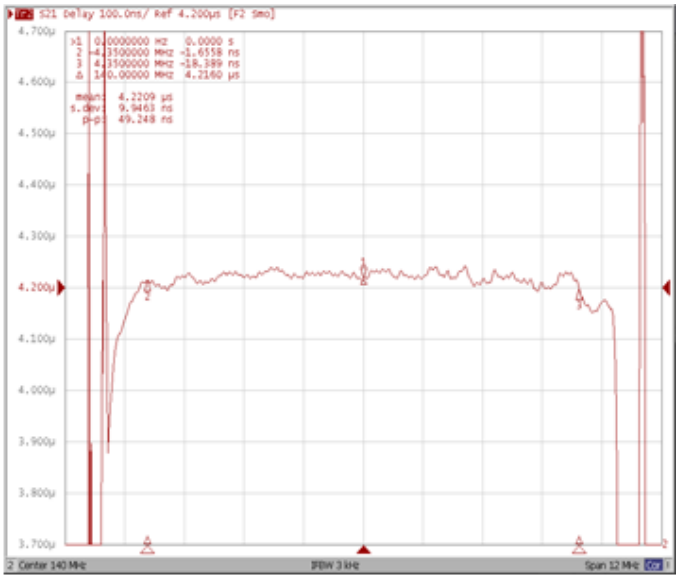


Frequency Response

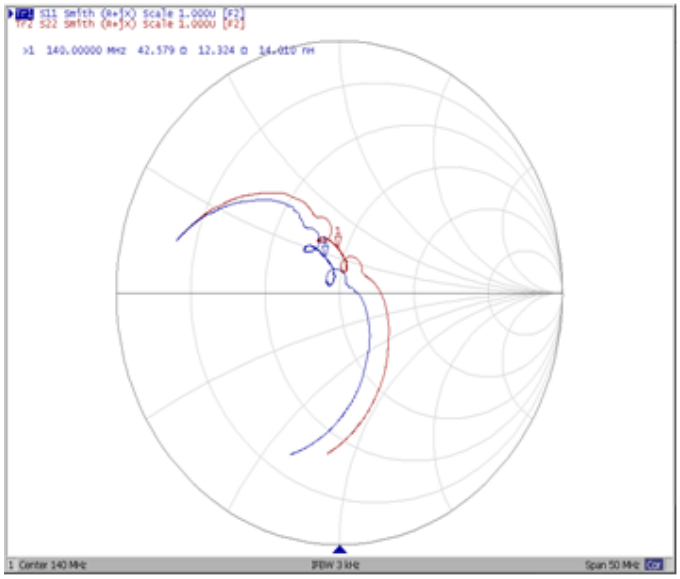
Ripple Variation Fo±4.35MHz



Group Delay Variation Fo±4.35MHz



Smith Chart



VSWR

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