Transko TA11507AD1

RoHS Compliant

- **115.00 MHz IF SAW Filter / 7.28 MHz Bandwidth**
- **Revision 0: 7. Apr. 2008**

Electrical Characteristics

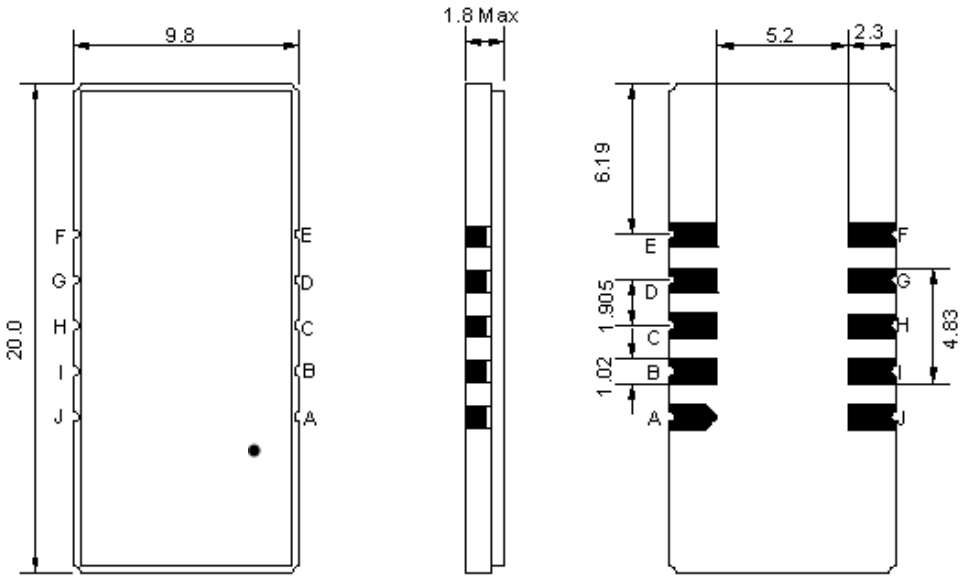
MAXIMUM RATING				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Operation Temperature Range	°C	-	25	-
Storage Temperature Range	°C	-40	-	85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended)(1)	Ω	-	50	-
Load Impedance (single ended)(1)	Ω	-	50	-
Package type & size	D1			
Length x Width	mm²	-	20.0 x 9.8	-
Height	mm	-	-	1.8

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	**UNIT**	**MINIMUM**	**TYPICAL**	**MAXIMUM**
Center Frequency (Fo)	MHz	-	115.0	-
Insertion Loss at Fo	dB	-	24.5	27.0
Group Delay Variation at Fo ±3.5 MHz	nsec	-	80	150
Absolute Delay at Fo	usec	-	3.20	-
Passband Ripple Variation at Fo ±3.5 MHz	dB	-	0.50	1.0
Bandwidth at -1dB	MHz		7.28	-
Bandwidth at -10dB	MHz	-	8.08	-
Bandwidth at -20dB	MHz	-	8.44	-
Bandwidth at -25dB	MHz	-	8.56	-
Bandwidth at -35dB	MHz	-	8.75	-
Ultimate Rejection	dB	48	52	-
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.

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

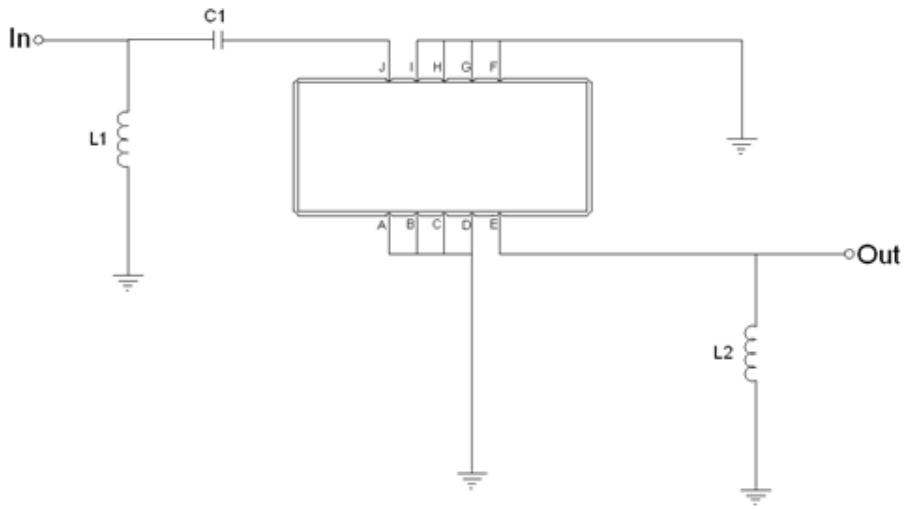
Package Dimensions



① **TRANSKO: Brand**
② **TA11507A: Model Name**
③ **X : Date Code (Year)**
④ **Y : Date Code (Month)**
⑤ **Z : Date Code (Date)**
• **: Index Dot**

Pin Description	
A, B, C, D, F, G, H, I	Ground
J	Input
E	Output

Testing Environment



Test Fixture & Values	
Input	L1 = 33 nH , C1 = 220 pF
Output	L2 = 47 nH
Source/Load Impedance	50 Ω

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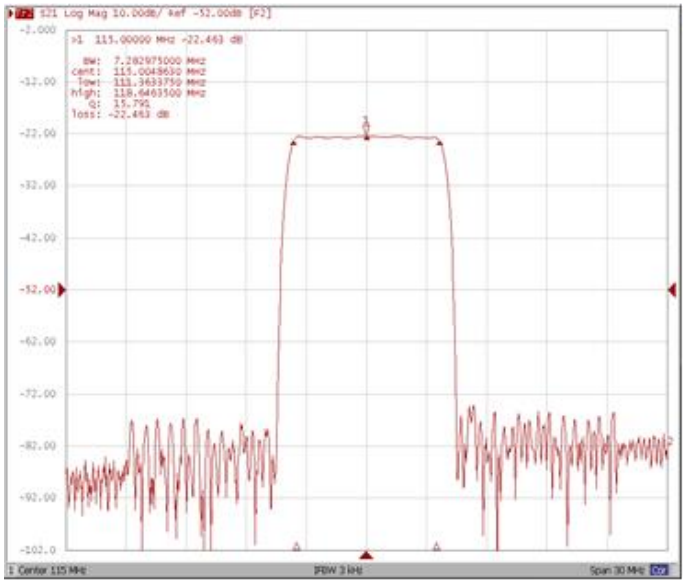
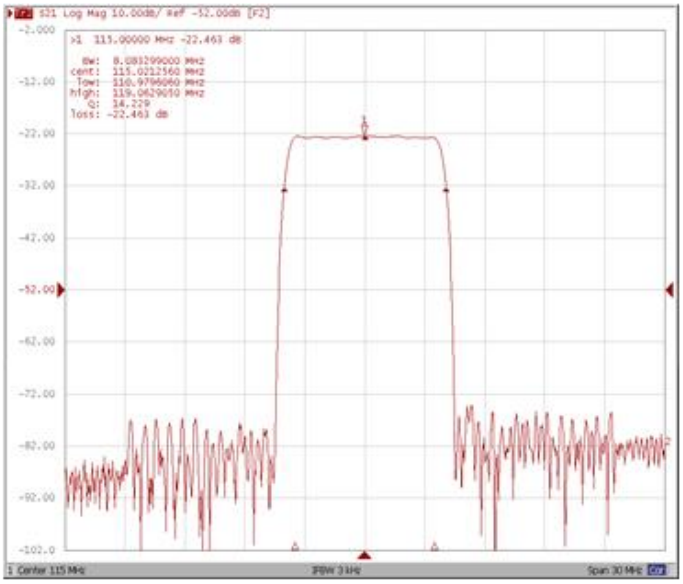
Frequency Characteristics

Frequency Response

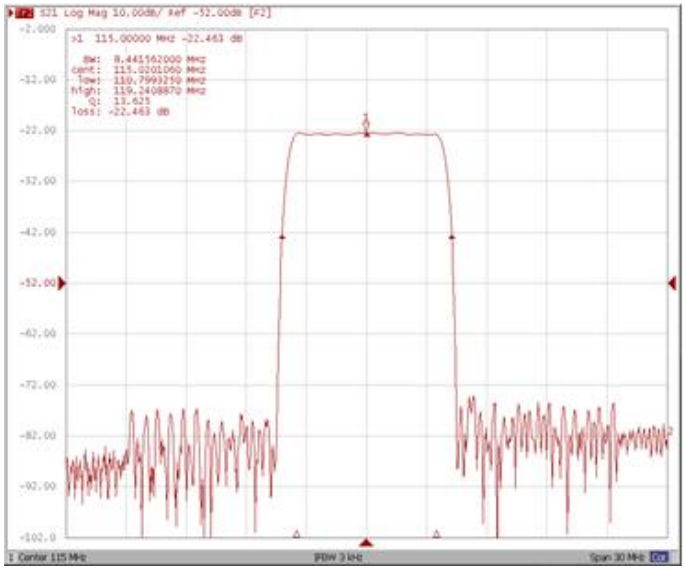
Bandwidth at –1.0 dB



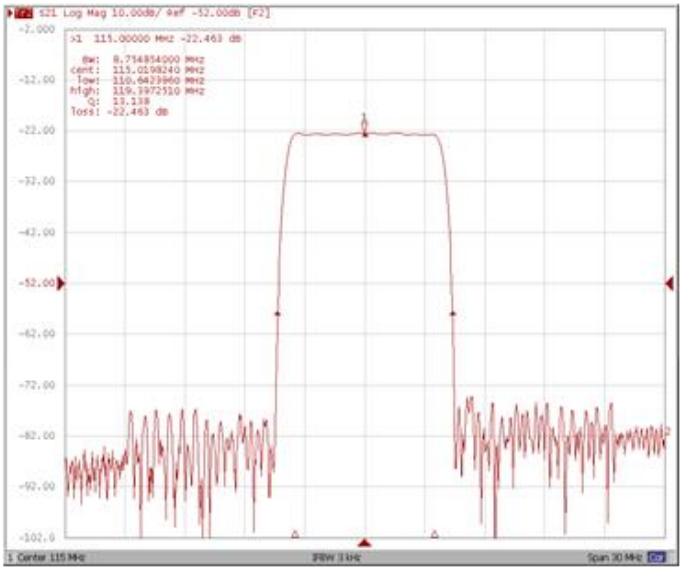
Bandwidth at –10.0 dB



Bandwidth at –20.0 dB

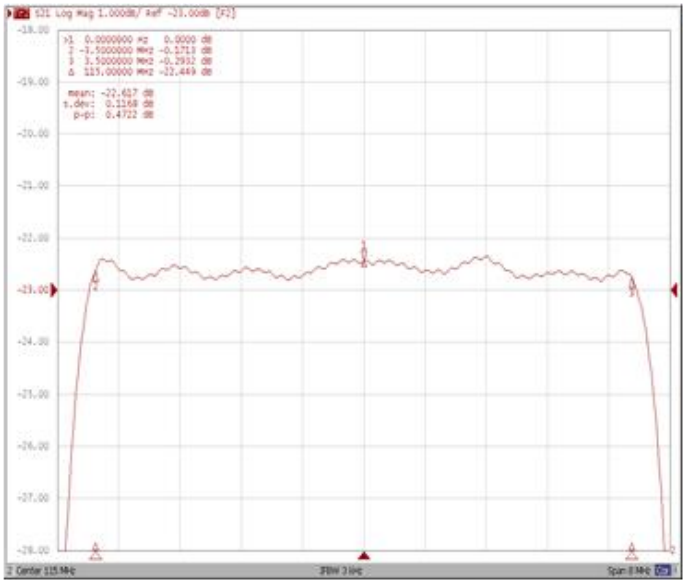


Bandwidth at –35.0 dB

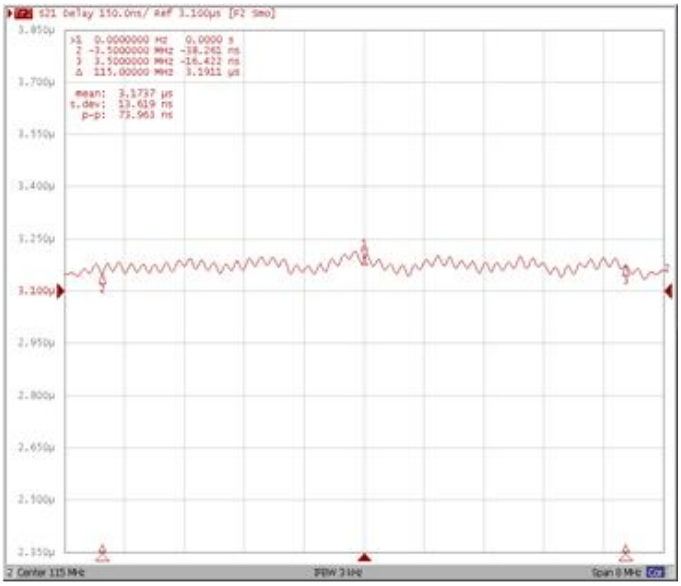


Frequency Response

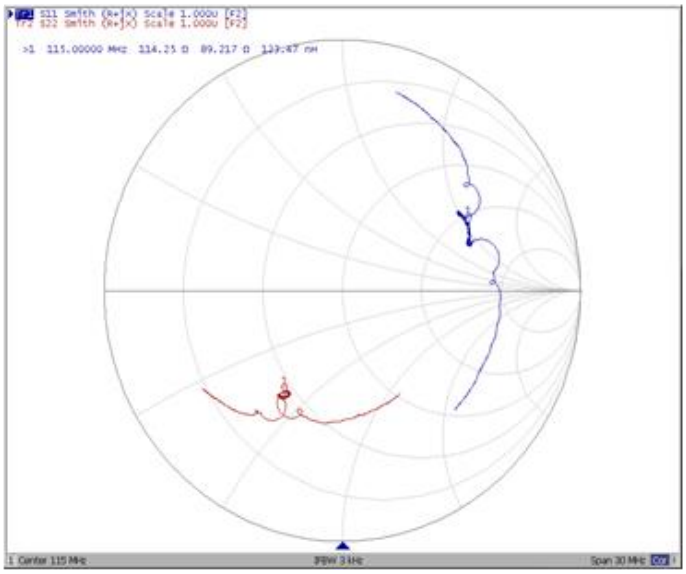
Ripple Variation Fo±3.5MHz



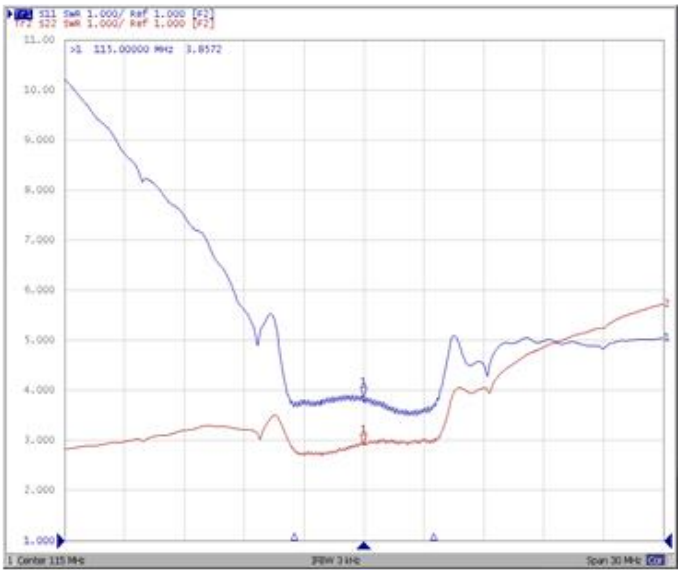
Group Delay Variation Fo±3.5MHz



Smith Chart



SWR



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