

- 145.00 MHz IF SAW Filter / 9.90 MHz Bandwidth
- Revision 0: 10 Jun. 2008

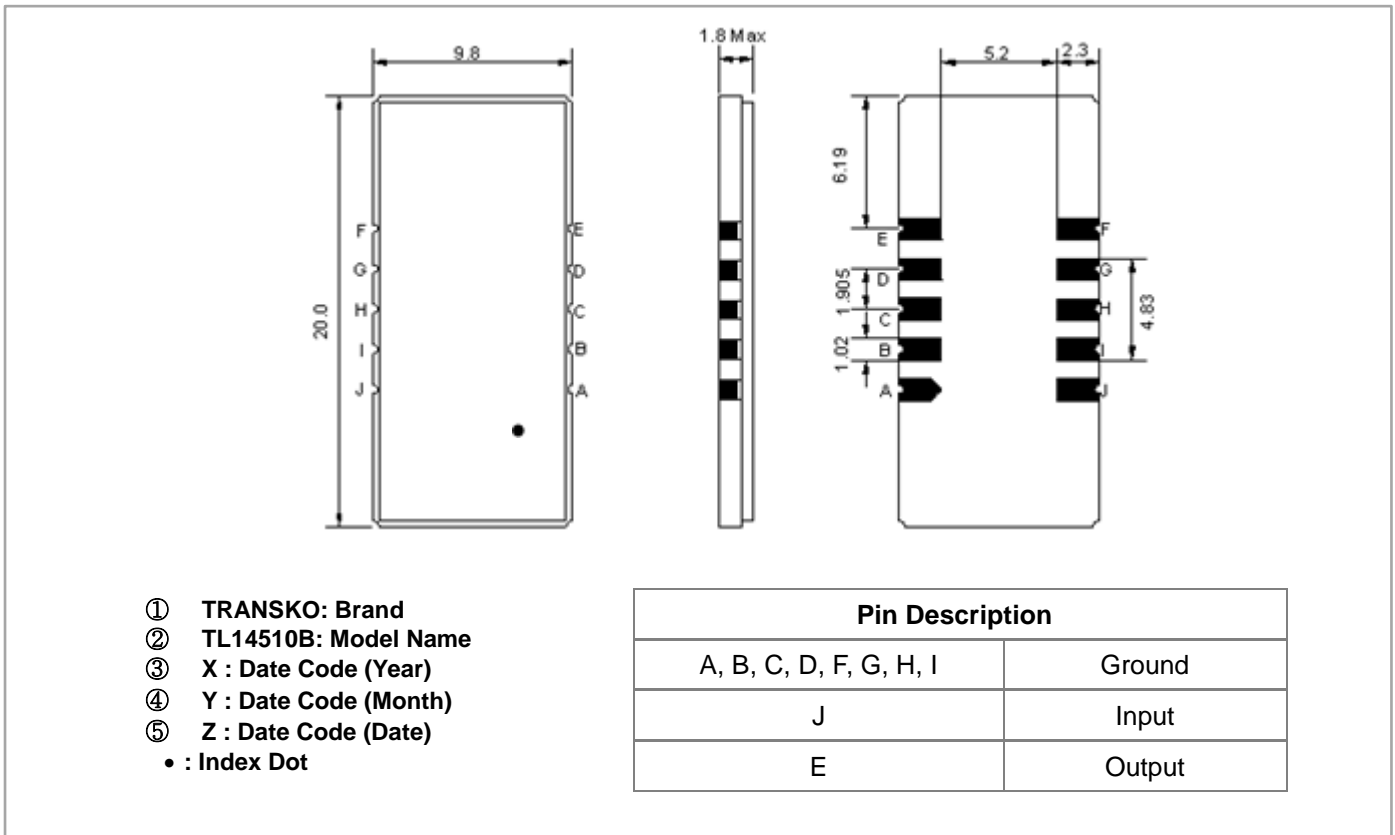
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operating Temperature Range	°C	0	-	60
Storage Temperature Range	°C	-30	-	80
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	mm ²	-	20.0 x 9.8	-
Height	mm	-	-	1.8

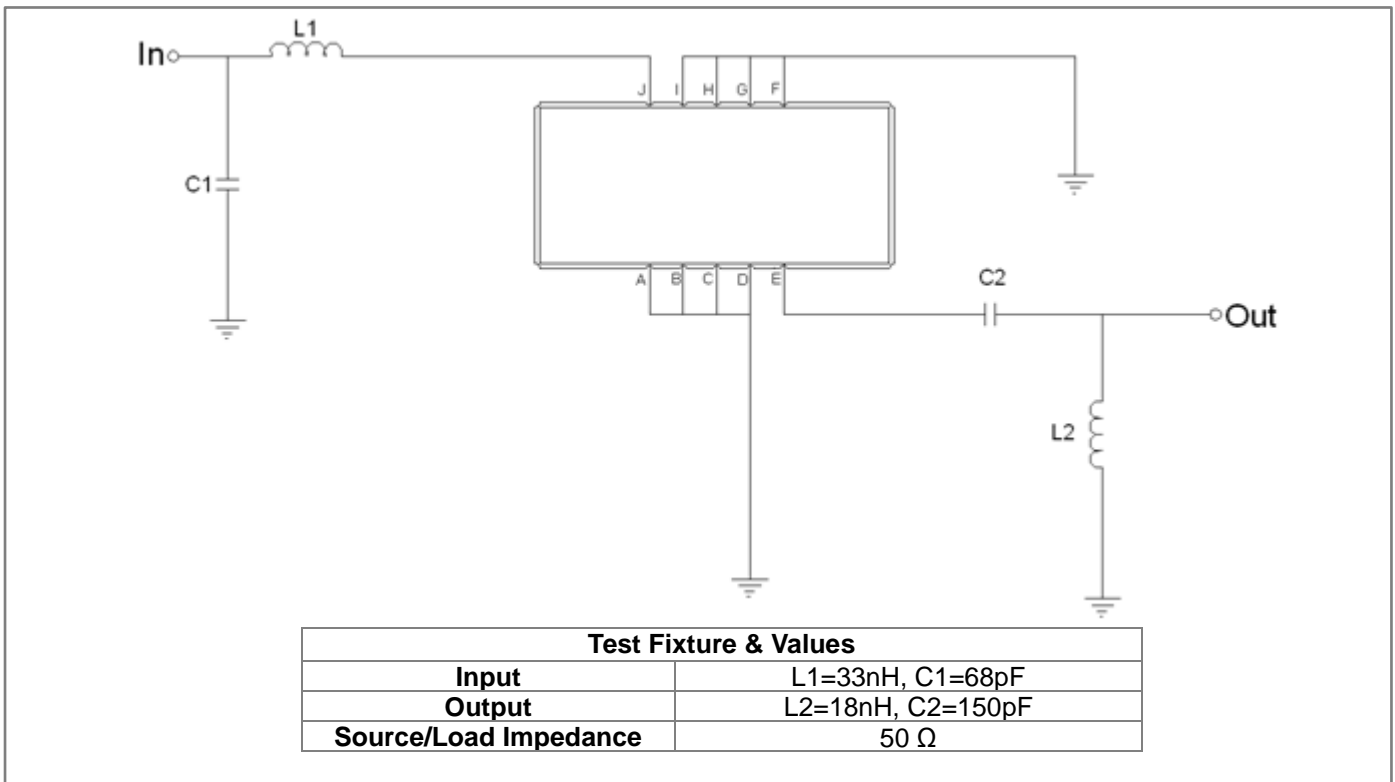
ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	144.85	145.00	145.15
Insertion Loss at Fo	dB	-	15.5	18.0
Group Delay Variation (Fo±4.5MHz)	ns	-	45	100
Absolute Delay	us	-	1.42	-
Passband Ripple (Fo±4.5MHz)	dB	-	0.40	1.0
Bandwidth at -1dB	MHz	9.70	9.90	-
Bandwidth at -3dB	MHz	-	10.43	-
Bandwidth at -20dB	MHz	-	11.72	-
Bandwidth at -40dB	MHz	-	12.66	13.00
Ultimate Rejection	dB	-	50	-

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



Testing Environment

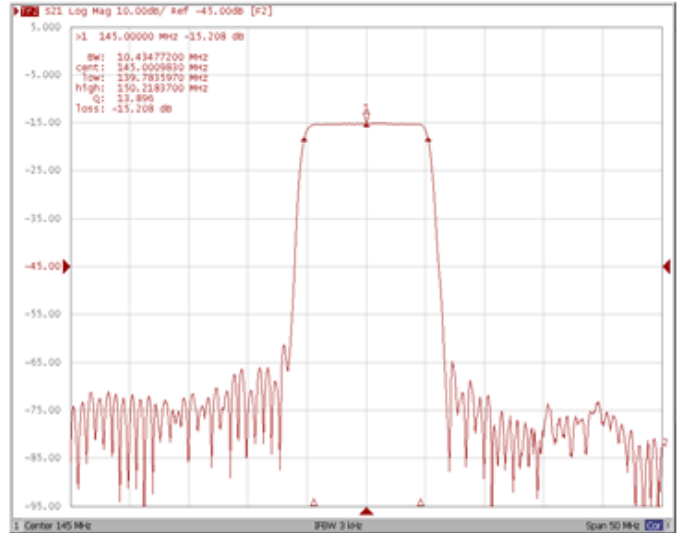
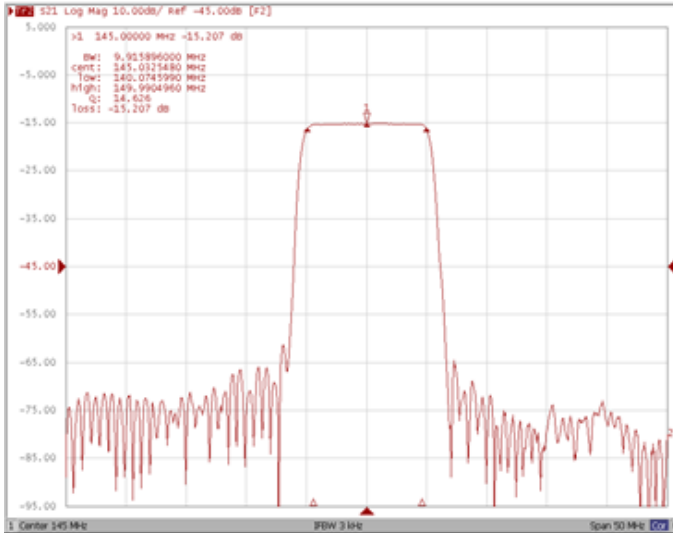


Frequency Characteristics

Frequency Response

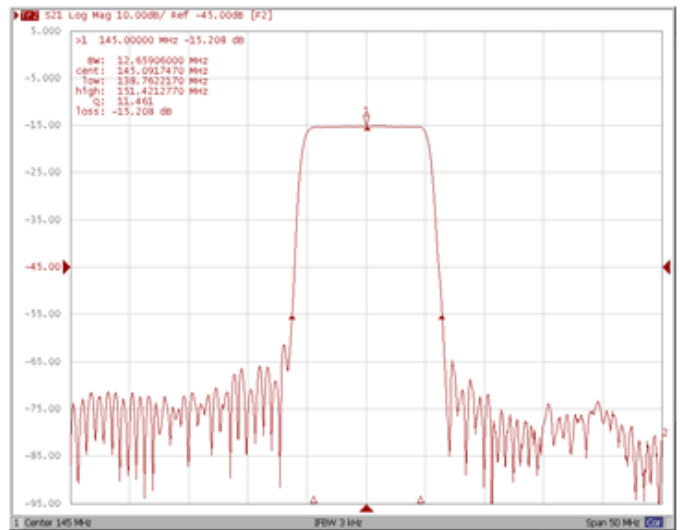
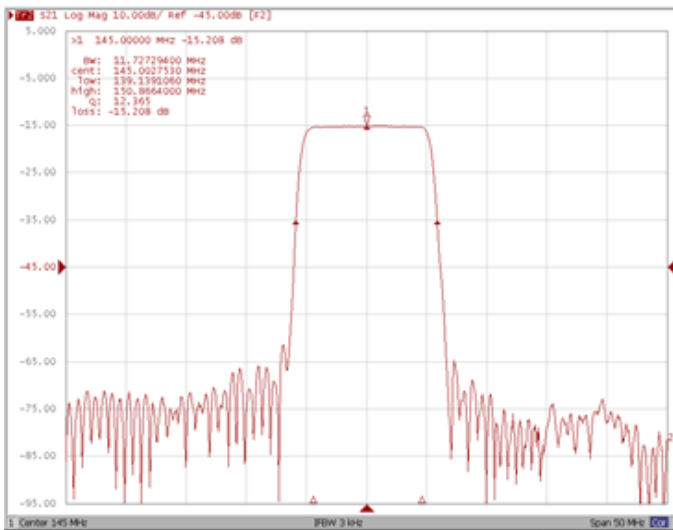
Bandwidth at -1.0 dB

Bandwidth at -3.0 dB



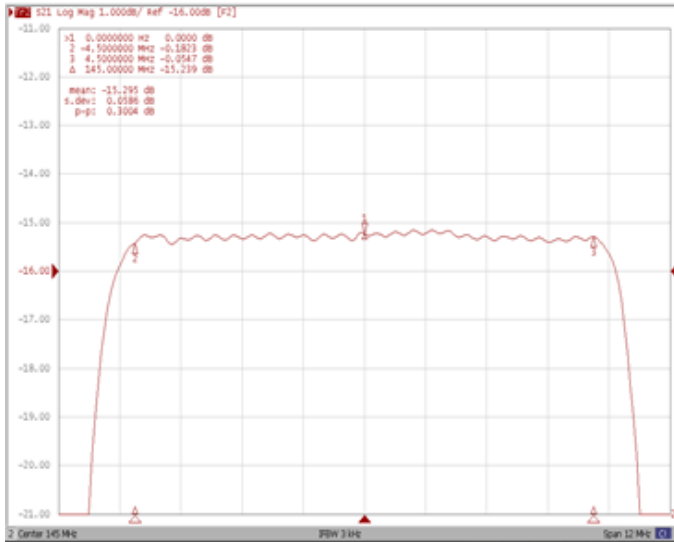
Bandwidth at -20.0 dB

Bandwidth at -40.0 dB

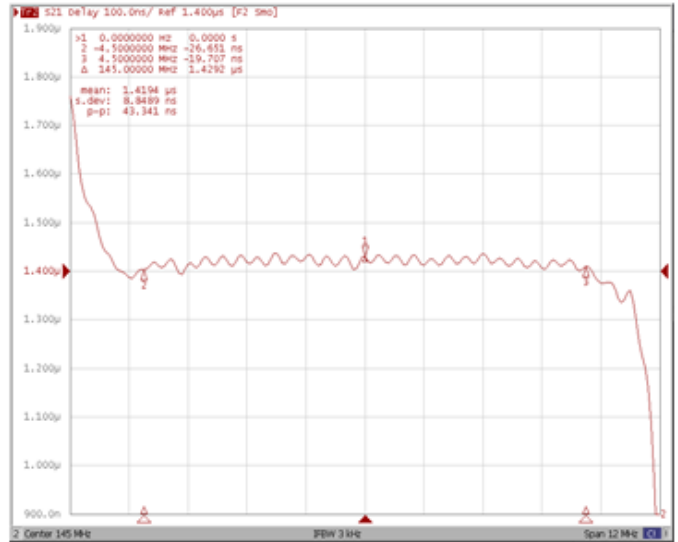


Frequency Response

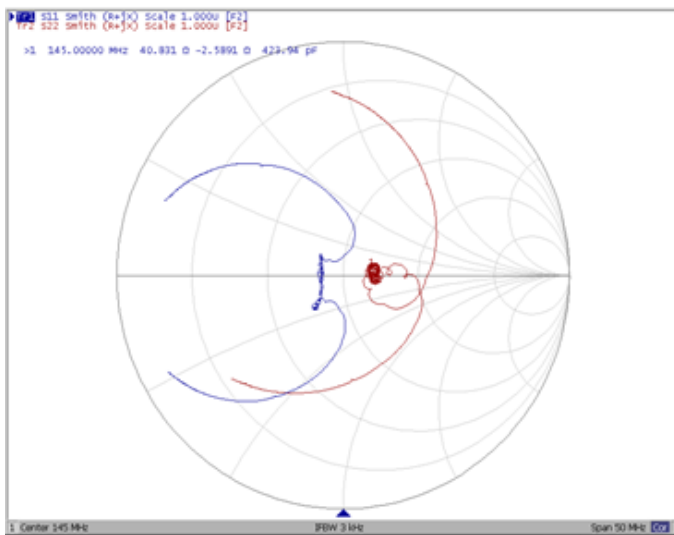
Ripple Variation Fo±4.5MHz



Group Delay Variation Fo±4.5MHz



Smith Chart



VSWR

