

- 135.0 MHz IF SAW Filter / 7.6 MHz Bandwidth
- Revision 1: 29 Oct. 2007

Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operating Temperature Range	°C	-20	-	70
Storage Temperature Range	°C	-40	-	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	V			
Length x Width	mm ²	-	13.3 x 6.5	-
Height	mm	-	-	1.8

ELECTRICAL SPECIFICATION				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Center Frequency (Fo)	MHz	-	135.0	-
Insertion Loss at Fo	dB	-	17.0	20.0
Amplitude Ripple Variation	dB _{p-p}	-	0.4	0.8
Group Delay Variation at Fo ± 3.5 MHz	nsec	-	40	80
Absolute Delay at Fo	μsec	-	0.85	-
Temperature Coefficient	ppm/°C	-	-23	-
Bandwidth at -1.0 dB	MHz	7.3	7.6	-
Bandwidth at -3.0 dB	MHz	8.3	8.5	-
Bandwidth at -40.0 dB	MHz	-	12.0	12.5
Relative Attenuation:				
Lower Sidelobe	dB	43	48	-
Upper Sidelobe	dB	43	48	-

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.

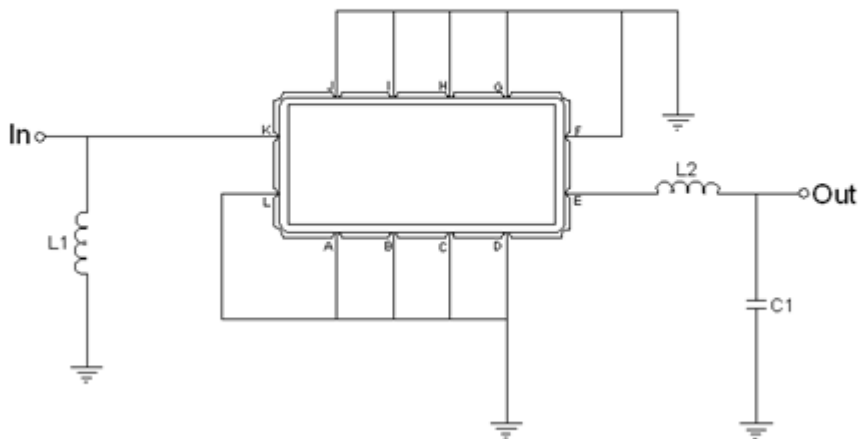
Package Dimensions



- ① **TRANSKO:** Brand
- ② **TL13507A:** 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, J, L	Ground
K	Input
E	Output

Testing Environment



Test Fixture & Values	
Input	L1=39 nH ,
Output	L2=100 nH , C1=20 pF
Source/Load Impedance	50 Ω

Frequency Characteristics

Frequency Response

