

Maximum Ratings

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	V			
Length x Width	mm ²	-	13.3 x 6.5	-
Height	mm	-	-	1.8

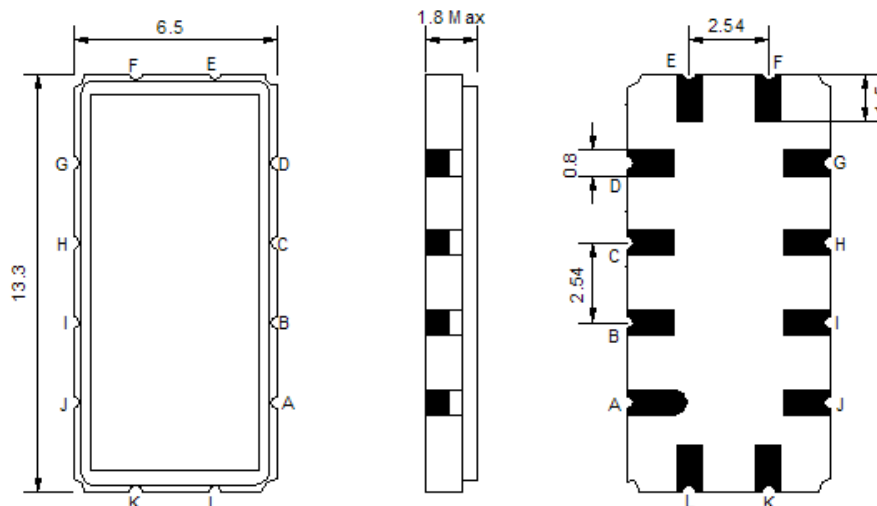
Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	139.8	140.0	140.2
Insertion Loss at Fo	dB	-	8.0	11.0
Amplitude Ripple Variation	dB _{p-p}	-	0.62	1.0
Group Delay Variation	nsec	-	110	180
Absolute Delay at Fo	μsec	-	0.98	-
Temperature Coefficient	ppm/°C	-	-86	-
Bandwidth at -1.0 dB	MHz	13.6	13.8	-
Bandwidth at -3.0 dB	MHz	14.8	15.05	-
Bandwidth at -40.0 dB	MHz	-	18.35	18.6
Bandwidth at -45.0 dB	MHz	-	18.6	19.0
Relative Attenuation:				
Lower sidelobe	dB	45	48	-
Upper sidelobe	dB	40	45	-

Notes : (1) With Matching Network (Ref. Testing Environment Circuit as shown below).

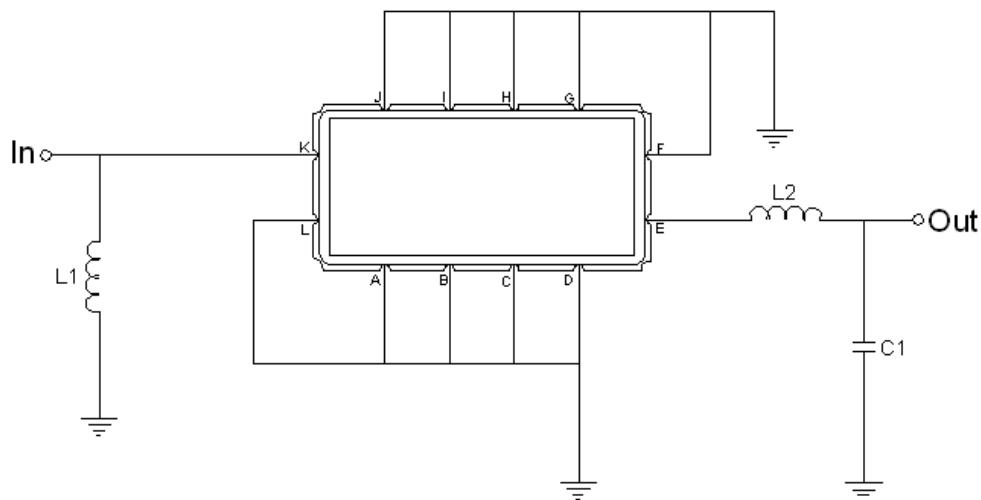
Those impedances could be modified with different impedance values and/or structures, if necessary.

Package Dimensions



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

Testing Environment



Test Fixture & Values	
Input	L1=39nH, Q >40
Output	L2=47nH, Q.>40 , C2=27pF
Source/Load Impedance	50 Ω

Frequency Response

