

SA139AK

Wireless, SAW Filter
Revision 0: March 2007



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-

□ Electrical Characteristics

Maximum Ratings

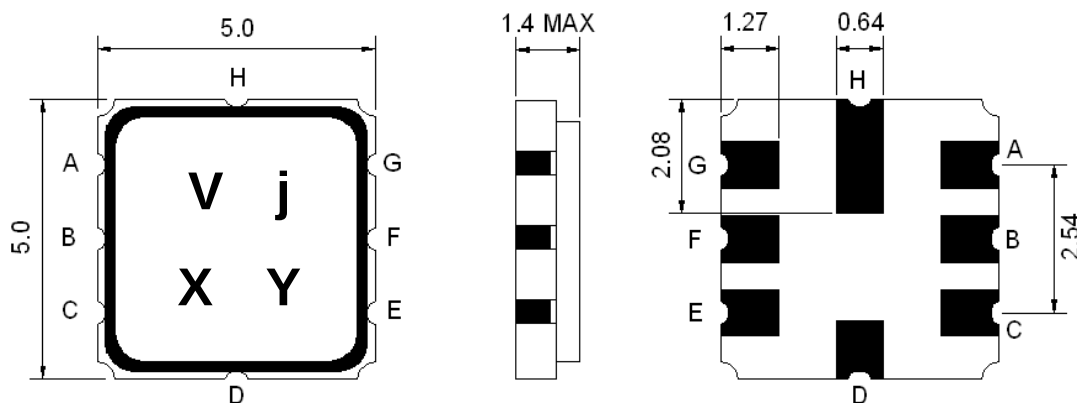
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-5	-	+70
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	0
Source Impedance (balanced ended) ⁽¹⁾	Ω	-	100	-
Load Impedance (balanced ended) ⁽¹⁾	Ω	-	100	-
Package type & size	K			
Length x Width	mm ²	-	5.0 x 5.0	-
Height	mm	-	-	1.4

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (F_{N1})	MHz	-	139.264	-
Maximum Insertion Loss	dB	-	4.0	6.0
Phase variation at $f_N \pm 15\text{ppm}$	deg	-	± 22	± 30
Temperature coefficient of frequency	ppm/K	-	-32	-
Band width	MHz	-	1.5	-
Absolute attenuation:				
0.3 ~ 120.00 MHz	dB	40	50	-
120.00 ~ 133.12 MHz	dB	24	28	-
133.12 ~ 136.12 MHz	dB	13	17	-
136.12 ~ 137.00 MHz	dB	5	9	-
141.50 ~ 143.00 MHz	dB	13	20	-
143.00 ~ 147.00 MHz	dB	18	25	-
147.00 ~ 155.00 MHz	dB	28	33	-
155.00 ~ 223.32 MHz	dB	35	45	-

Notes : (1) No Matching Network .

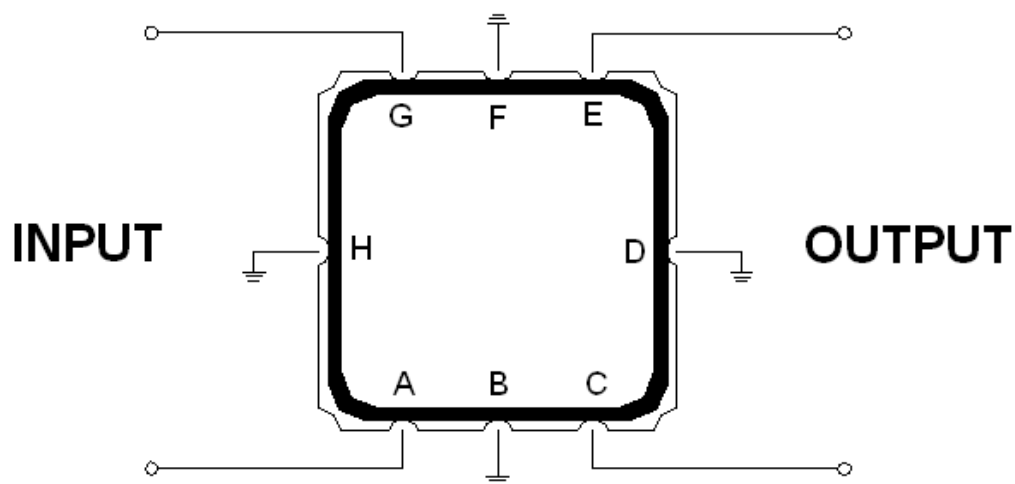
Package Dimensions



Marking Descriptions	
V	Wireless Application
j	Series Number
X	Date Code(Year)
Y	Date Code(Month)

Pin Description	
B, D, F, H	Ground
A, G	In
C, E	Out

Testing Environment



Source & Load Impedance: 100 Ω

□ Frequency Characteristics

Frequency Response

