

SF-016903-S46

ISM-Band, RF SAW Filter
Revision 0: April 2017



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□ Electrical Characteristics

Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	6
Maximum Input Power	dBm	-	-	10
Source Impedance (unbalanced) ⁽¹⁾	Ω	-	50	-
Load Impedance (unbalanced) ⁽¹⁾	Ω	-	50	-
Package type & size	S46			
Length x Width	-	-	5.0 x 5.0	-
Height	mm	-	-	1.4

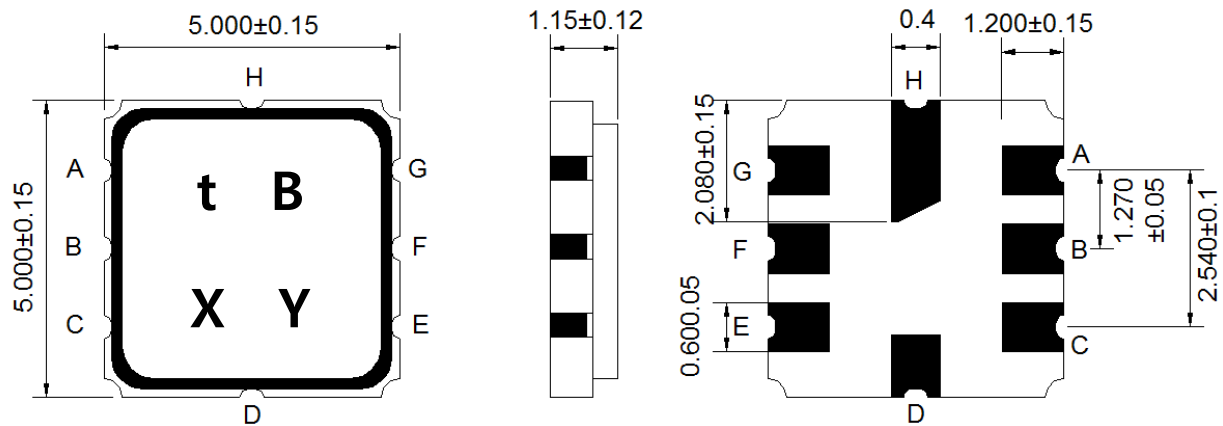
Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center frequency Fc	MHz	-	169.4	-
3dB BW	KHz	-	500	-
Minimum insertion loss IL(min) Incl. loss of matching elements *1)	dB	-	2.0	3.0
Passband (relative to IL _{min}) *1) 169.3 ~ 169.5 MHz	dB _{p-p}	-	0.4	3.0
Attenuation (relative to IL _{min}) *1)				
10.0 ~ 165.0 MHz	dB	30	44	-
170.6 ~ 175.0 MHz	dB	15	20	-
175.0 ~ 1000.0 MHz	dB	30	37	-

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

*1) : The matching circuit is real by actual passive components.
0805 Coilcraft CS series chip conductor is used for inductor.
0402 muRata GRM series is used for capacitor.

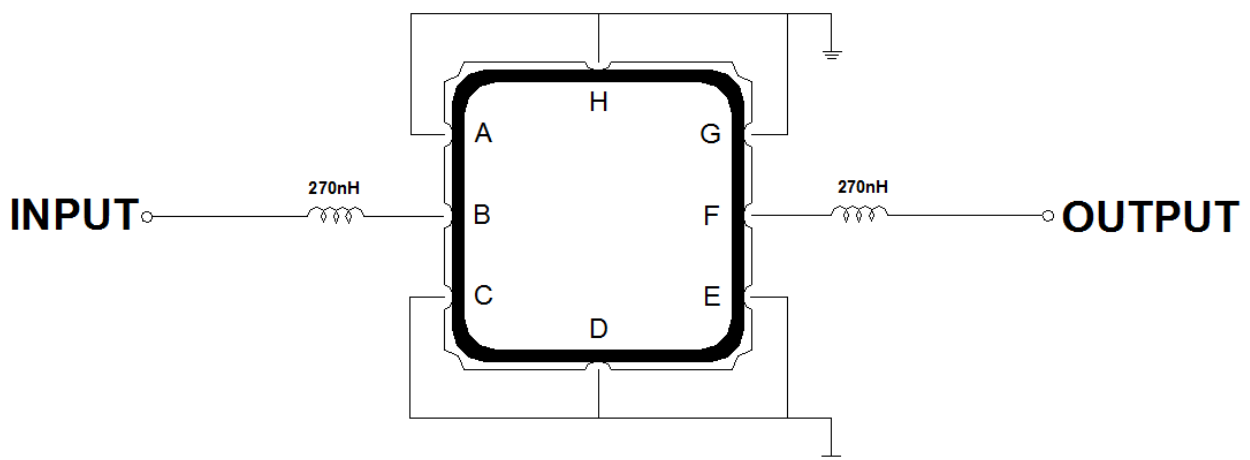
Package Dimensions



Marking Descriptions	
t	ISM-Band Application
B	Series Number
X	Date Code(Year)
Y	Date Code(Month)

Pin Description	
C,D,G,H	Ground
A	Input ground (recommended) or Input
B	Input (recommended) or Input ground
E	Output ground (recommended) or Output
F	Output (recommended) or Output ground

Testing Environment



Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response

