

SF-031401-S27

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



- ☐ Electrical Characteristics
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□ Electrical Characteristics

Maximum Ratings

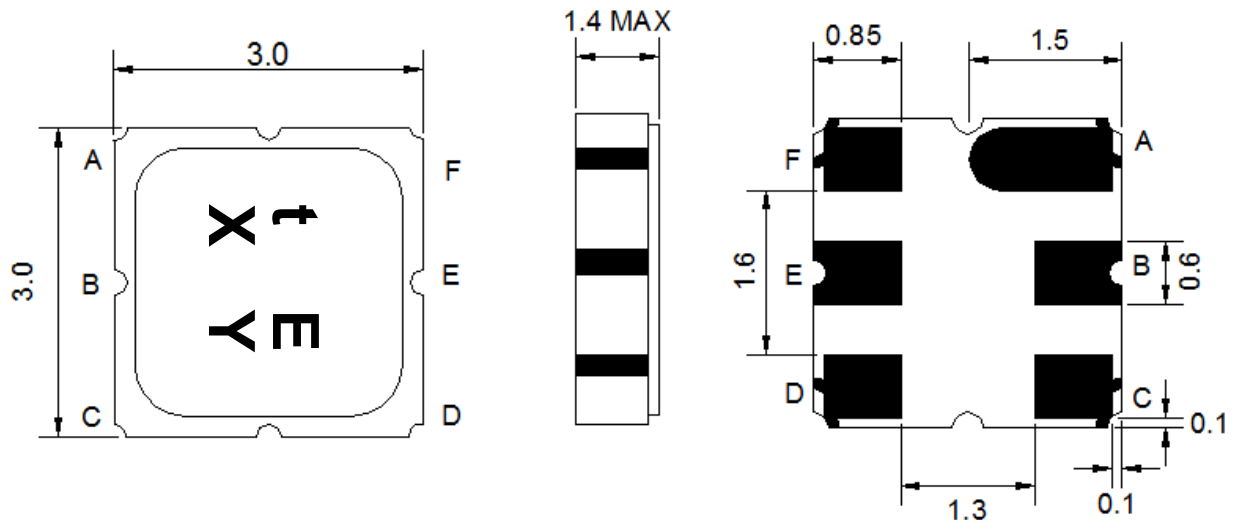
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	-	+105
Storage Temperature Range	°C	-40	-	+105
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	13
Source Impedance (unbalanced) ⁽¹⁾	Ω	-	50	-
Load Impedance (unbalanced) ⁽¹⁾	Ω	-	50	-
Package type & size	S27			
Length x Width	-	-	3.0 x 3.0	-
Height	mm	-	-	1.4

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency F_c	MHz	-	314.45	-
Minimum Insertion Loss $\alpha_{\min}$				
Incl. Loss in matching elements (313.92 ~ 314.98 MHz)	dB	-	1.9	2.7
Excl. Loss in matching elements (313.92 ~ 314.98 MHz)	dB	-	1.0	1.6
Pass Band (Relative to $\alpha_{\min}$)				
313.92 ~ 314.98 MHz ¹	dB	-	2.5	3.0
313.90 ~ 315.00 MHz ²	dB	-	3.0	3.5
Relative Attenuation (Relative to $\alpha_{\min}$) α_{rel}				
10.0 ~ 180.0 MHz	dB	61	66	-
180.0 ~ 200.0 MHz	dB	57	62	-
300.0 ~ 310.0 MHz	dB	26	31	-
310.0 ~ 313.0 MHz	dB	11	16	-
315.9 ~ 318.8 MHz	dB	11	16	-
318.9 ~ 326.0 MHz	dB	18	25	-
326.0 ~ 328.0 MHz	dB	31	36	-
328.0 ~ 340.0 MHz	dB	36	41	-
340.0 ~ 389.0 MHz	dB	41	46	-
349.0 ~ 568.0 MHz	dB	54	59	-
568.0 ~ 1164.0 MHz	dB	61	66	-
1164.0 ~ 2250.0 MHz	dB	51	57	-
2250.0 ~ 2500.0 MHz	dB	55	61	

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

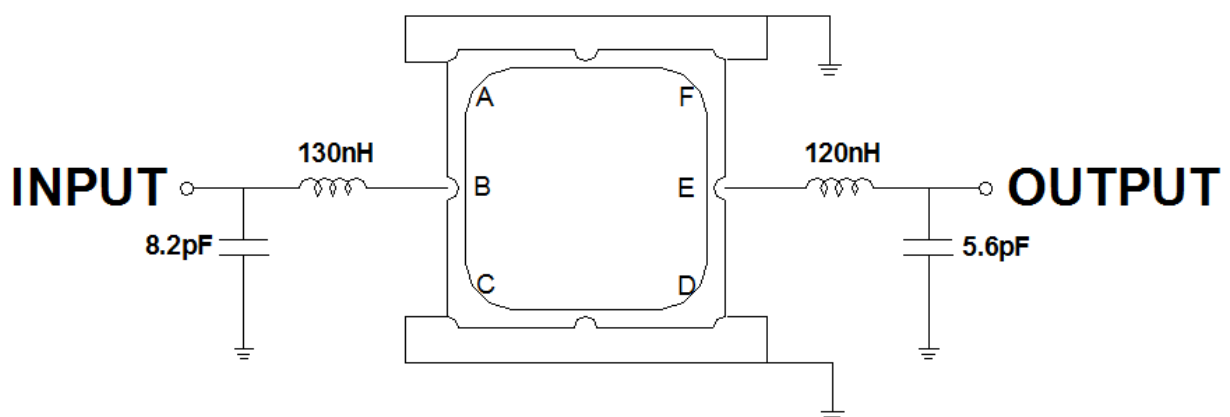
Package Dimensions



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

Pin Description	
C,F	Ground
A	Input or Input ground
B	Input or Input ground
D	Output or Output ground
E	Output or Output ground

Testing Environment



Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response

