

SF-031502-S27

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	-	+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

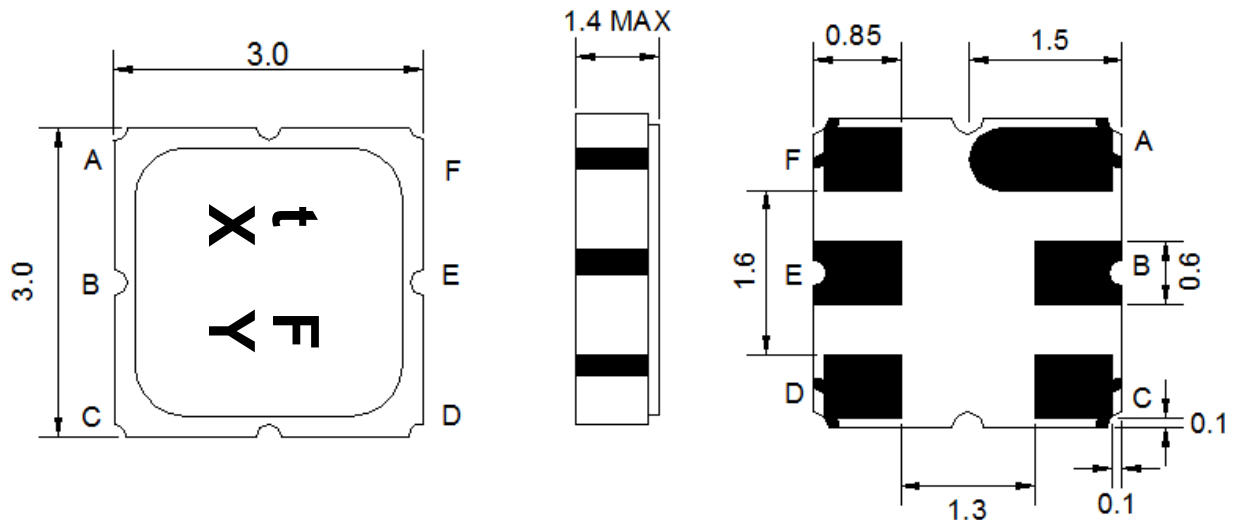
Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency F_c	MHz	-	315.0	-
Minimum Insertion Loss $\alpha_{\min}$				
Incl. Loss in matching elements (314.47 ~ 315.53 MHz)	dB	-	2.5	2.7
Excl. Loss in matching elements (314.47 ~ 315.53 MHz)	dB	-	1.5	1.6
Pass Band (Relative to $\alpha_{\min}$)				
314.47 ~ 315.53 MHz ¹	dB	-	2.5	3.0
314.45 ~ 315.55 MHz ²	dB	-	3.0	3.5
Relative Attenuation (Relative to $\alpha_{\min}$) α_{rel}				
10.0 ~ 140.0 MHz	dB	66	71	-
140.0 ~ 235.0 MHz	dB	57	62	-
235.0 ~ 300.0 MHz	dB	44	49	-
300.0 ~ 310.0 MHz	dB	23	34	-
310.0 ~ 313.0 MHz	dB	9	14	-
317.0 ~ 320.0 MHz	dB	9	14	-
320.0 ~ 325.0 MHz	dB	15	20	-
325.0 ~ 332.0 MHz	dB	27	32	-
332.0 ~ 352.0 MHz	dB	36	41	-
352.0 ~ 390.0 MHz	dB	47	52	-
390.0 ~ 1600.0 MHz	dB	55	60	-
1600.0 ~ 2500.0 MHz	dB	50	55	-

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

1) 314.47 ... 315.49 MHz for extended temperature range -40 °C to +125 °C.

2) 314.45 ... 315.51 MHz for extended temperature range -40 °C to +125 °C.

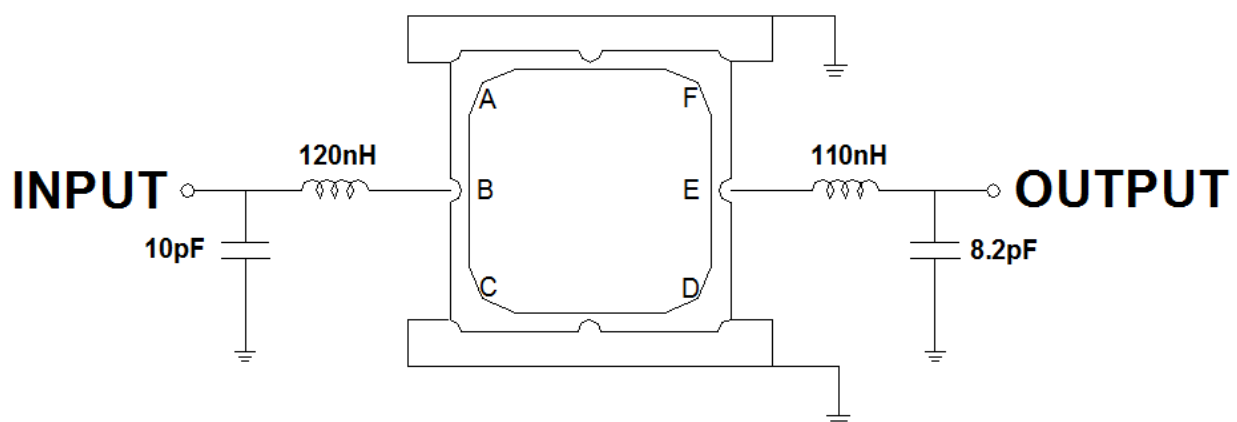
Package Dimensions



Marking Descriptions	
t	ISM-Band Application
F	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

