

SF-043305-S27

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



- ☐ Electrical Characteristics
 - ☐ Package Dimensions
 - ☐ Testing Environment
 - ☐ Frequency Characteristics
-

SAWNICS Inc.

112 Seonggeo-Street, Seonggeo-eup, Seobuk-gu, Cheonan-si, Chungcheongnam-do, South Korea
/ 31044Tel : +82-41-550-9372 / Fax : +82-41-622-9116 / www.sawnics.com



□ 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

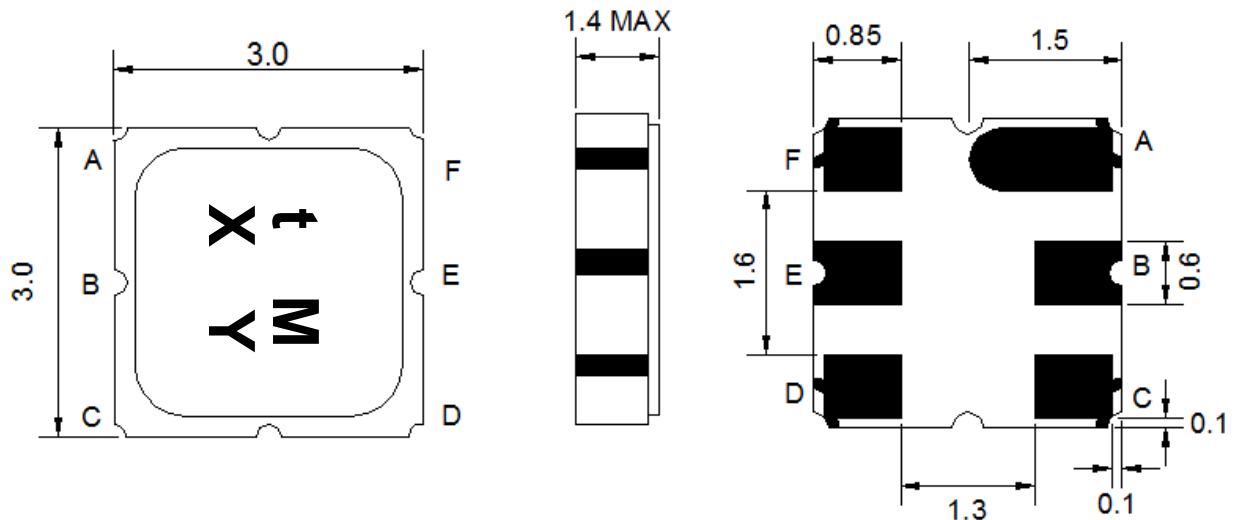
Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency F_c	MHz	-	433.92	-
Minimum Insertion Loss $\alpha_{\min}$				
Incl. Loss in matching elements (433.385 ~ 434.455MHz)	dB	-	2.2	2.9
Excl. Loss in matching elements (433.385 ~ 434.455 MHz)	dB	-	1.4	2.1
Pass Band (Relative to $\alpha_{\min}$)				
433.385 ~ 434.455 MHz ¹⁾	-	-	1.1	2.5
433.37 ~ 434.47 MHz ²⁾	-	-	1.3	3.0
Relative Attenuation (Relative to $\alpha_{\min}$) α_{rel}				
10.0 ~ 350.0 MHz	dB	50	55	-
350.0 ~ 414.0 MHz	dB	30	35	-
414.0 ~ 425.0 MHz	dB	30	35	-
425.0 ~ 432.22 MHz	dB	13	17	-
435.92 ~ 436.8 MHz	dB	13	17	-
436.8 ~ 438.0 MHz	dB	22	27	-
438.0 ~ 446.0 MHz	dB	25	30	-
446.0 ~ 455.0 MHz	dB	25	30	-
455.0 ~ 480.0 MHz	dB	28	33	-
480.0 ~ 800.0 MHz	dB	40	45	-
800.0 ~ 1700.0 MHz	dB	52	57	-
1700.0 ~ 2500.0 MHz	dB	42	47	-

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

1) 433.385 ... 434.40 MHz for extended temperature range -40 °C to +125 °C.

2) 433.370 ... 434.415 MHz for extended temperature range -40 °C to +125 °C.

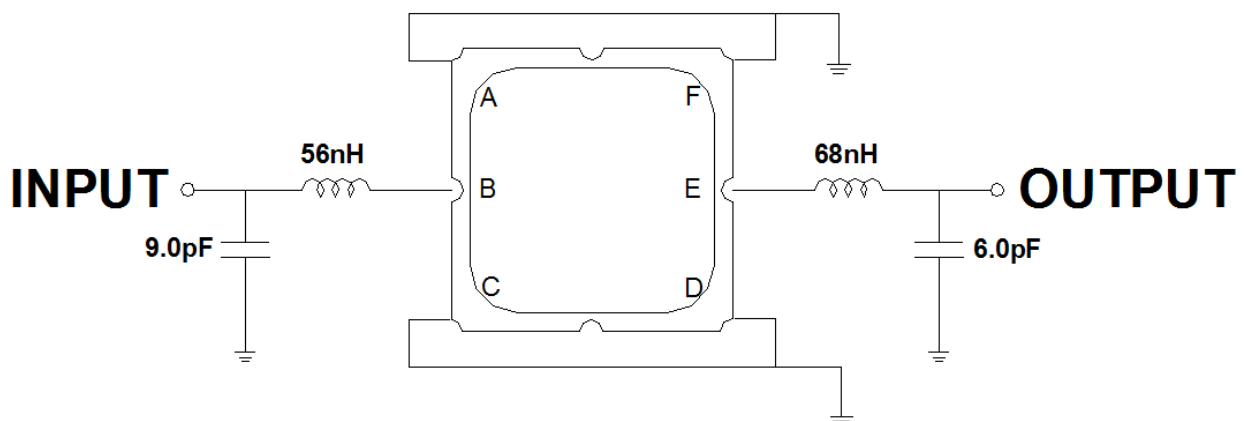
Package Dimensions



Marking Descriptions	
t	ISM-Band Application
M	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

