

SF-086913-S27

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



- ☐ Electrical Characteristics
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 - ☐ Frequency Characteristics
-



□ Electrical Characteristics

Maximum Ratings

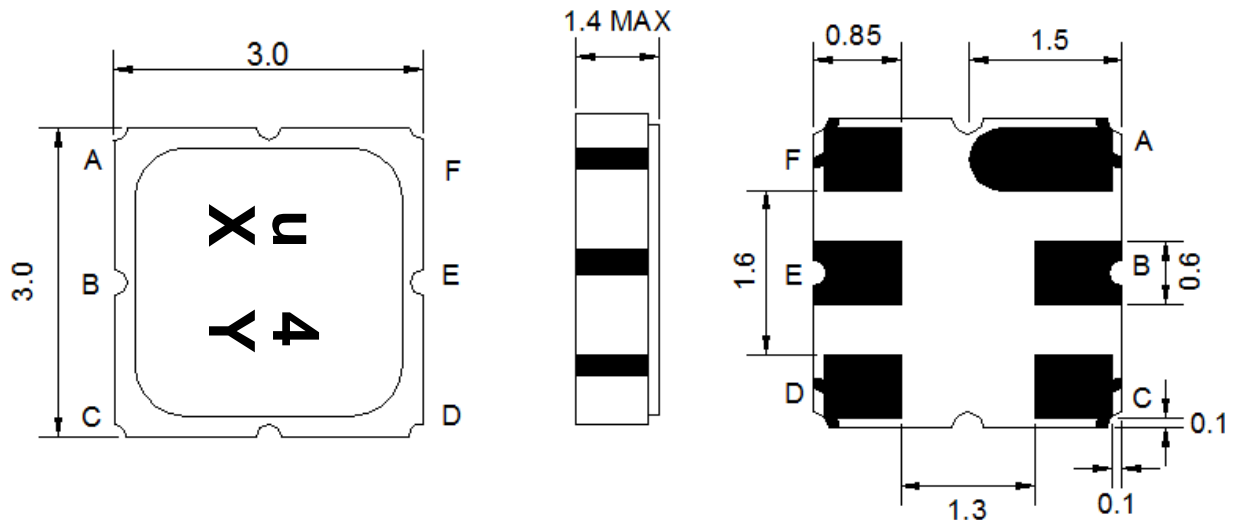
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-10	-	+55
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	6
Maximum Input Power	dBm	-	-	10
Source Impedance (unbalanced) ⁽¹⁾	Ω	-	50	-
Load Impedance (unbalanced) ⁽¹⁾	Ω	-	50	-
Package type & size	S27			
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	-	869.3	-
Minimum insertion loss IL_{min} incl. loss in matching elements	dB	-	2.9	3.5
Minimum insertion loss IL_{min} excl. loss in matching elements	dB	-	2.6	3.2
Passband (relative to IL_{min}) 868.7~870.0 MHz	dB	-	1.0	3.0
Passband (relative to IL_{min}) 868.6~870.0 MHz	dB	-	1.0	4.0
Attenuation (relative to IL_{min})				
10.0 ~ 700.0 MHz	dB	45	54	-
700.0 ~ 760.0 MHz	dB	43	49	-
760.0 ~ 820.0 MHz	dB	38	43	-
820.0 ~ 860.0 MHz	dB	25	36	-
860.0 ~ 867.0 MHz	dB	10	24	-
867.5 ~ 868.0 MHz	dB	7.0	14	-
870.6 ~ 872.0 MHz	dB	5.5	14	-
872.0 ~ 876.0 MHz	dB	12	17	-
876.0 ~ 890.0 MHz	dB	20	26	-
890.0 ~ 910.0 MHz	dB	29	33	-
910.0 ~ 1000.0 MHz	dB	36	41	-
1000.0 ~ 1300.0 MHz	dB	50	54	-
1300.0 ~ 2000.0 MHz	dB	48	63	-
2000.0 ~ 2500.0 MHz	dB	45	74	-

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

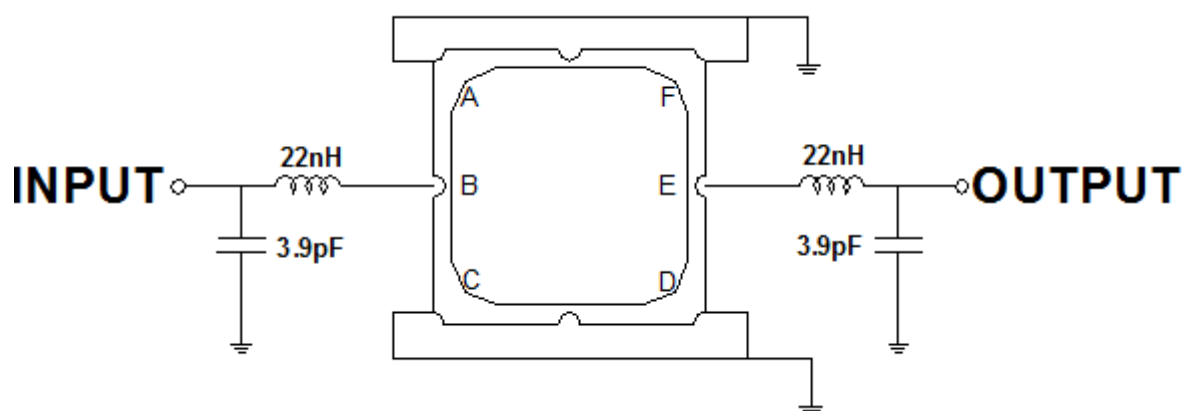
Package Dimensions



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

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

Testing Environment



Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response

