

SF-043302-S39

ISM-Band, Dual SAW Diplexer Filter
Revision 0: May 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	-	-	0
Maximum Input Power	dBm	-	-	10
Source Impedance (unbalanced) ⁽¹⁾	Ω	-	50	-
Load Impedance (unbalanced) ⁽¹⁾	Ω	-	50	-
Package type & size	S39			
Length x Width	-	-	3.8 x 3.8	-
Height	mm	-	-	1.7

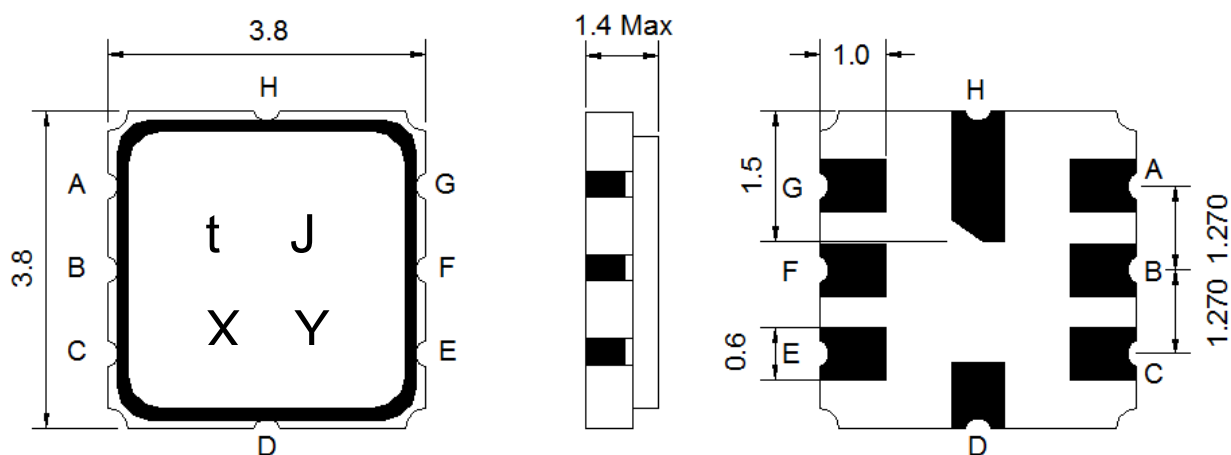
Electrical Specification

Pass Band I	Unit	Minimum	Typical	Maximum
Center Frequency F_c	MHz	-	433.2	-
Insertion loss (433.10~433.30 MHz) IL	dB	-	4.0	4.5
Amplitude Ripple (433.10~433.30 MHz)	dB	-	1.0	1.5
VSWR (433.10~433.30 MHz)	-	-	2.0	2.3
Attenuation (Reference level from 0 dB)				
434.54 ~ 434.74 MHz	dB	25	30	-
F_c + 2.4 MHz	dB	25	30	-
F_c - 2.4 MHz	dB	25	30	-

Pass Band II	Unit	Minimum	Typical	Maximum
Center frequency F_c	MHz	-	434.64	-
Insertion loss (434.54~434.74 MHz) IL	dB	-	4.0	4.5
Amplitude Ripple (434.54~434.74 MHz)	dB	-	1.0	1.5
VSWR (434.54~434.74 MHz)	-	-	2.0	2.3
Attenuation (Reference level from 0 dB)				
433.10 ~ 433.30 MHz	dB	25	30	-
F_c + 2.4 MHz	dB	30	35	-
F_c - 2.4 MHz	dB	30	35	-

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

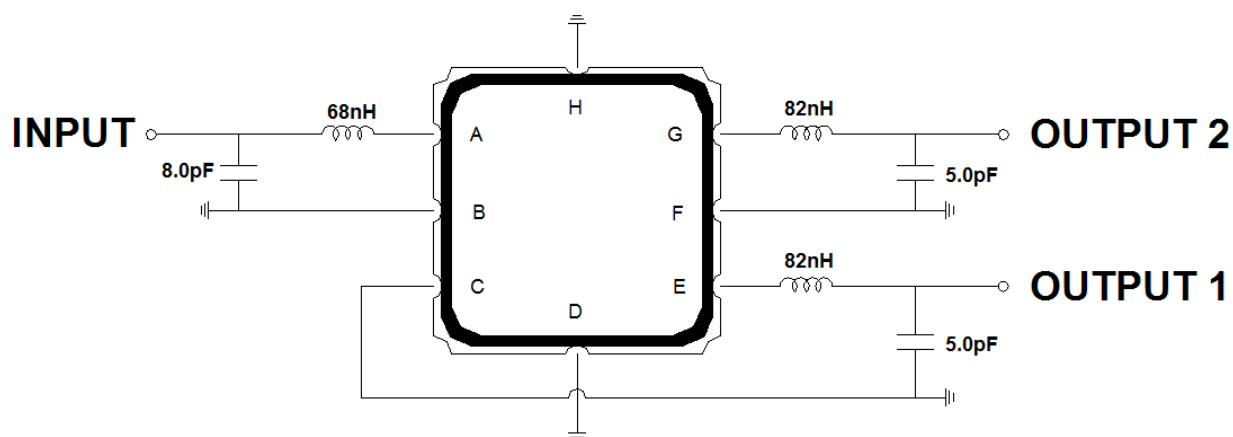
Package Dimensions



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

Pin Description	
A	Input
B,C,F	RF Ground
D, H	Case Ground
E	Band 1 Output
G	Band 2 Output

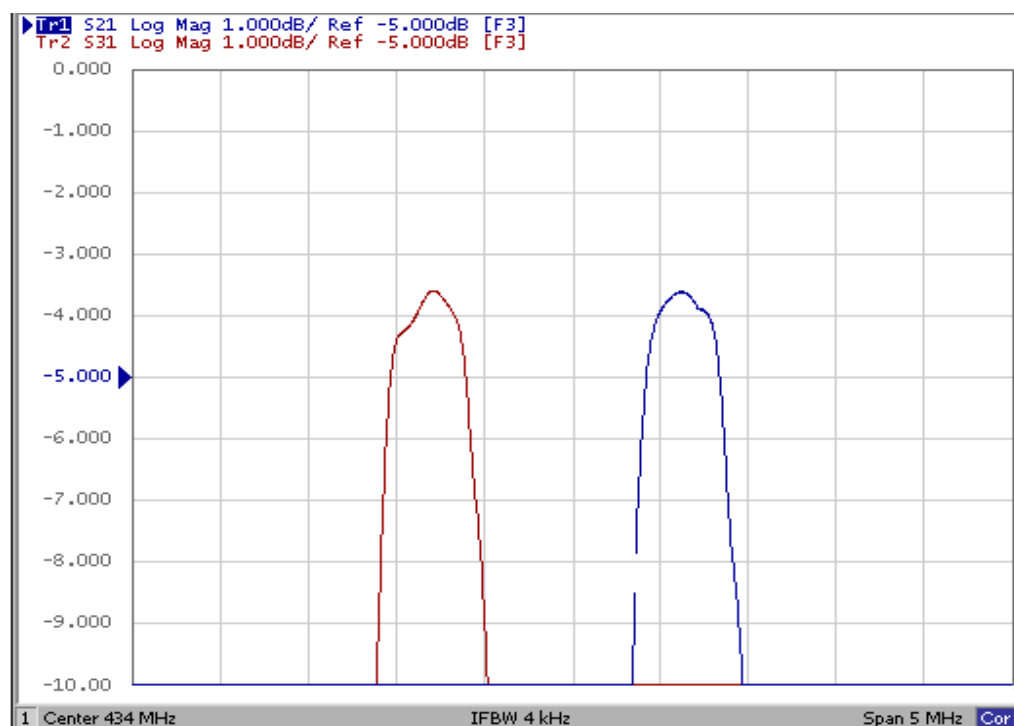
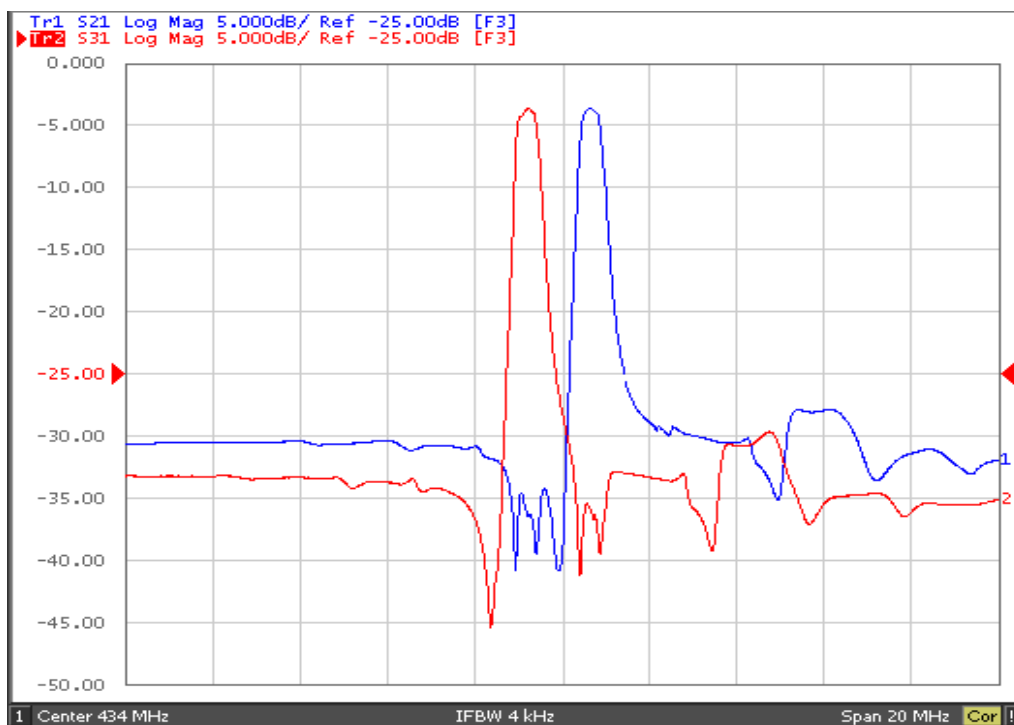
Testing Environment



Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



Smith Chart

