SF434G
Narrow Band Low Loss RF Filter for ISM Application

This product is lead-free in compliance with RoHs 2002/95/EC.

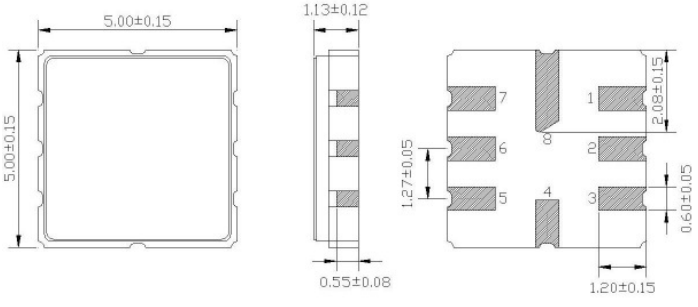
Test Conditions:

RF power	0 dBm	
Temperature	23 °C	
DC Voltage	6 V	
Terminating source impedance (Z_S):	50 Ω	☑ Matching Required
Terminating load impedance (Z_L):	50 Ω	☑ Matching Required

	minimum	typical	maximum	unit
Centre frequency		433.92		MHz
Insertion Loss in Pass Band 433.72 MHz – 434.12 MHz		2.2	4.0	dB
Ripple in Pass Band 433.72 MHz – 434.12 MHz		1.0	2.0	dB
Rejection				
10 MHz – 400MHz	40	50		dB
400 MHz – 429 MHz	27	45		dB
429 MHz – 432 MHz	20	30		dB
436 MHz – 443 MHz	13	25		dB
443 MHz – 450 MHz	27	45		dB
450 MHz – 600 MHz	38	48		dB
RF Power			10	dBm
Operating temperature range	-40		+125	°C
Storage temperature range	-40		+125	°C
Impedance Z_S		233||1.3		Ω|| pF
Impedance Z_L		233||1.3		Ω|| pF
Temperature coefficient of frequency		-0.032		ppm/K²

Electrostatic **S**ensitive **D**evice

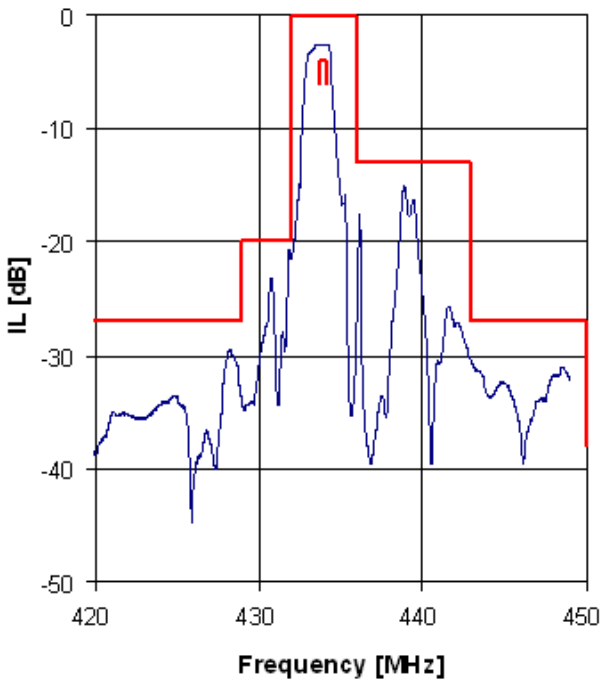
Package: S52 / 5.0*5.0mm²



All dimensions in mm

Pin 2	Input	Pin 4, 8	Case Ground
Pin 5	Output	Pin 3, 7	to be grounded
Pin 1	Input Ground	Pin 6	Output Ground

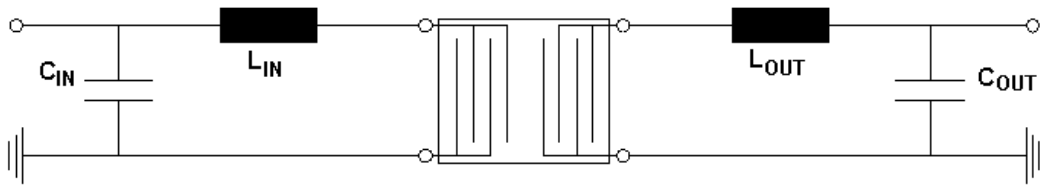
Typical performance:



Matching network to 50 Ω: [1)]

L_{IN}: 53nH
C_{IN}: 9pF

L_{OUT} : 53nH
C_{OUT}: 9pF



[1)] Matching elements are based on circuit with ideal components.
Matching values may vary due to PCB layout and real components.