

SF434G
Narrow Band Low Loss RF Filter for ISM Application
 This product is lead-free in compliance with RoHs 2002/95/EC.

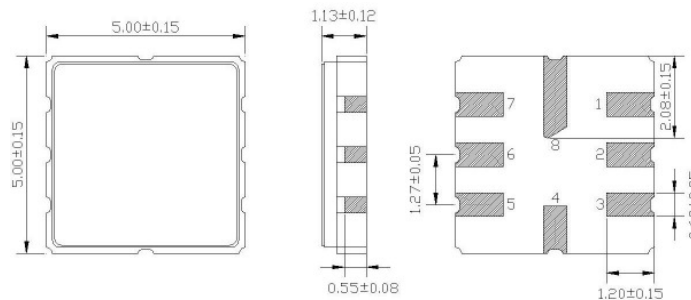
Test Conditions:

RF power	0 dBm	
Temperature	23 °C	
DC Voltage	6 V	
Terminating source impedance (Z _S):	50 Ω	<input checked="" type="checkbox"/> Matching Required
Terminating load impedance (Z _L):	50 Ω	<input checked="" type="checkbox"/> 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/K ²

Electrostatic Sensitive Device

Package: S52 / 5.0*5.0mm²

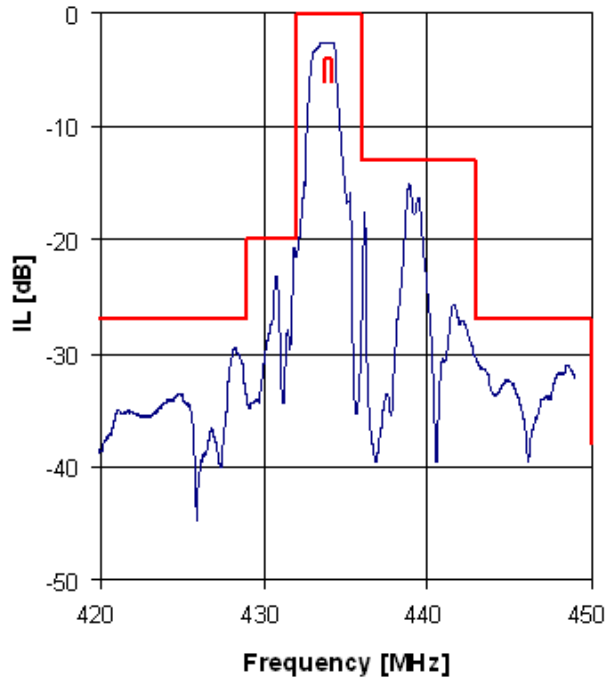


All dimensions in mm

Pin 2 Input
 Pin 5 Output
 Pin 1 Input Ground

Pin 4, 8 Case Ground
 Pin 3, 7 to be grounded
 Pin 6 Output Ground

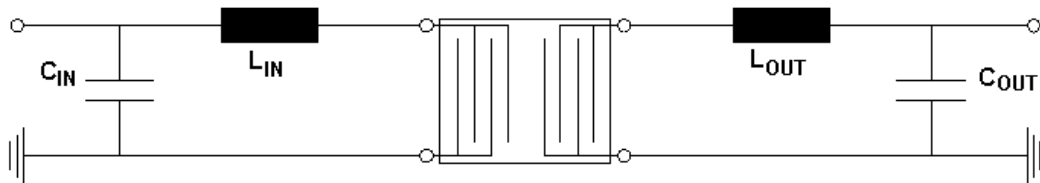
Typical performance:



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.