

SF869D Narrow Band Low Loss RF Filter for ISM Application

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

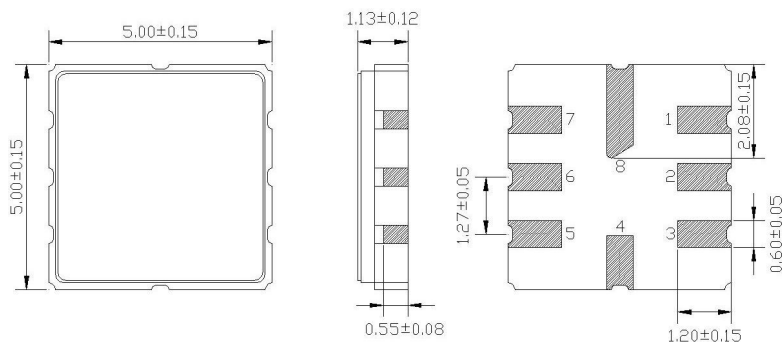
Test conditions:

RF power	0 dBm	
Temperature	23 °C	
DC Voltage	0 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		868.300		MHz
Insertion Loss in Pass Band 868.0 – 868.6 MHz		2.3	3.5	dB
Ripple in Pass Band 868.0 – 868.6 MHz		0.4	1.2	dB
Rejection				
820.0 MHz – 850.0 MHz	35	37		dB
850.0 MHz – 862.0 MHz	25	27		dB
862.0 MHz – 866.0 MHz	15	17		dB
870.5 MHz – 875.5 MHz	15	17		dB
875.5 MHz – 880.0 MHz	20	24		dB
880.0 MHz – 1000 MHz	30	34		dB
RF Power			10	dBm
Operating temperature range	-40		+125	°C
Storage temperature range	-40		+125	°C
Temperature coefficient of frequency		-0.032		ppm/K ²
Impedance Z_S		77 1.9		Ω pF
Impedance Z_L		77 1.9		Ω pF

Electrostatic Sensitive Device

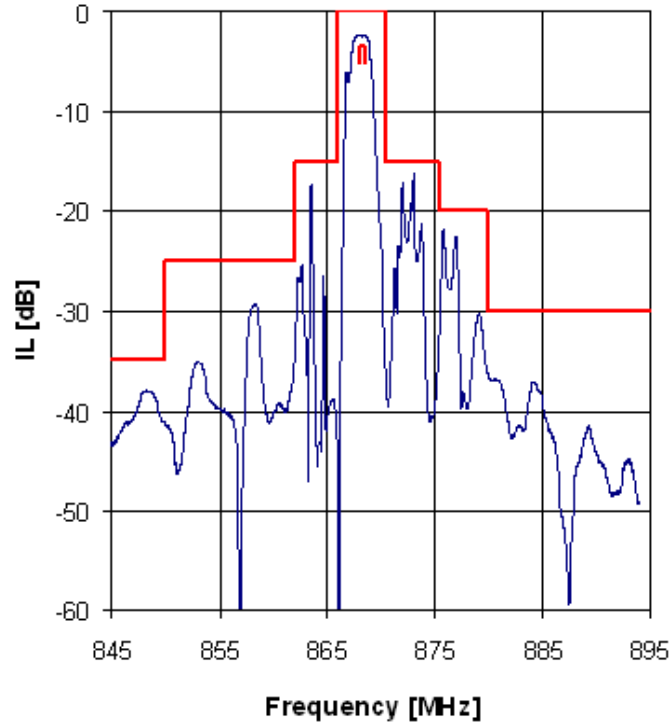
Package: S52 / 5.0*5.0mm²



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:

L_{IN} : 10.3 nH
 C_{IN} : 5.0 pF

L_{OUT} : 10.3 nH
 C_{OUT} : 5.0 pF

