

**SF434D**  
**Narrow Band Low Loss RF Filter for ISM Application**  
*This product is lead-free in compliance with RoHs 2002/95/EC.*

**Test Conditions:**

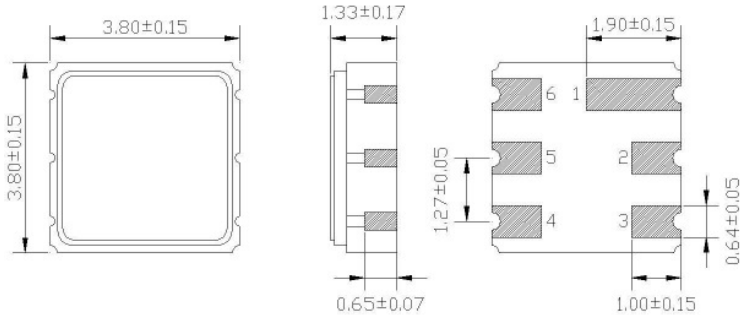
RF power	0 dBm		
Temperature	23 °C		
DC Voltage	6 V		
Terminating source impedance (Z <sub>S</sub> ):	50 Ω		<input checked="" type="checkbox"/> Matching Required
Terminating load impedance (Z <sub>L</sub> ):	50 Ω		<input checked="" type="checkbox"/> Matching Required

	minimum	typical	maximum	unit
Centre frequency		433.92		MHz
Insertion Loss in Pass Band 433.72 – 434.12 MHz		1.0	2.5	dB
Ripple in Pass Band 433.72 – 434.12 MHz		0.3	1.5	dB
Rejection				
10 MHz – 415 MHz	40	50		dB
415 MHz – 429 MHz	27	45		dB
429 MHz – 430 MHz	20	30		dB
430 MHz – 432.5 MHz	8	25		dB
436 MHz – 439 MHz	8	25		dB
439 MHz – 448 MHz	27	13		dB
448 MHz – 600 MHz	38	48		dB
RF Power			10	dBm
Operating temperature range	-40		+125	°C
Storage temperature range	-40		+125	°C
Impedance Z <sub>S</sub>		76  4.4		Ω   pF
Impedance Z <sub>L</sub>		76  4.4		Ω   pF
Temperature coefficient of frequency		-0.032		ppm/K <sup>2</sup>

**Electrostatic Sensitive Device**

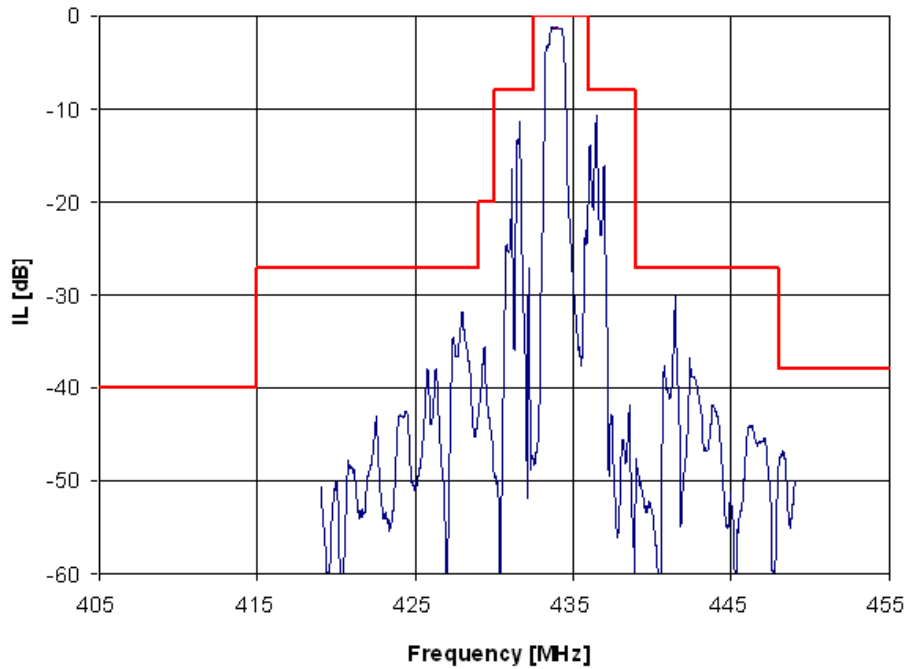
**Package: S35 / 3.8\*3.8mm<sup>2</sup>**



All dimensions in mm

Pin 2	Input
Pin 5	Output
Pin 1, 3, 4, 6	to be grounded

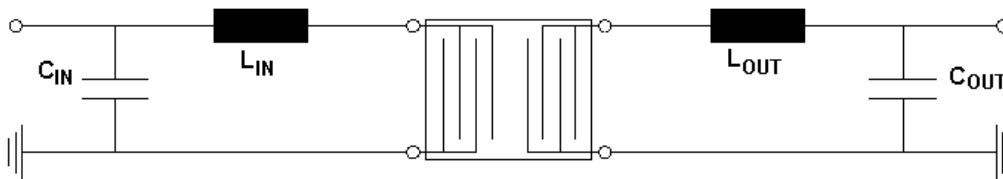
**Typical performance:**



**Matching network to 50  $\Omega$ :** <sup>1)</sup>

$L_{IN}$ : 34nH  
 $C_{IN}$ : 0pF

$L_{OUT}$ : 34nH  
 $C_{OUT}$ : 0pF



<sup>1)</sup> Matching elements are based on circuit with ideal components.  
Matching values may vary due to PCB layout and real components.