

### SF917A Narrow Band Low Loss RF Filter for ISM Application

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

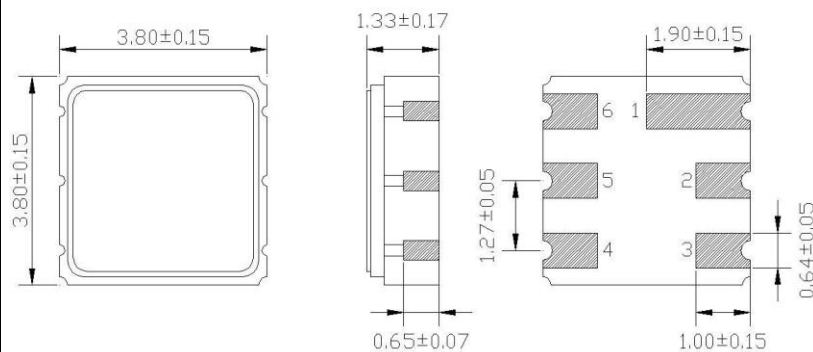
**Test conditions:**

|   |    |     |   |
|---|----|-----|---|
| RF power  | 0  | dBm |   |
| Temperature                                     | 23 | °C  |   |
| 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 |

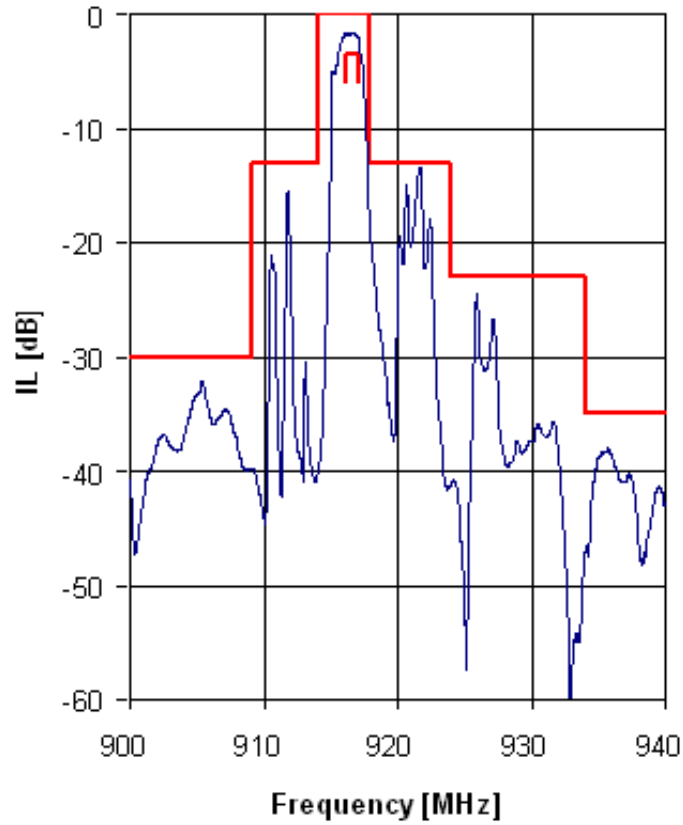
|  | minimum | typical | maximum | unit               |
|--|---------|---------|---------|--------------------|
| Centre frequency                                 |         | 916.5   |         | MHz                |
| Insertion Loss in Pass Band<br>916.0 – 917.0 MHz |         | 2.0     | 3.5     | dB                 |
| Ripple in Pass Band<br>916.0 – 917.0 MHz         |         | 1.0     |         | dB                 |
| Rejection  |         |         |         |                    |
| 100 MHz – 909 MHz                                | 30      | 43      |         | dB                 |
| 909 MHz – 914 MHz                                | 13      | 15      |         | dB                 |
| 918 MHz – 924 MHz                                | 13      | 15      |         | dB                 |
| 924 MHz – 934 MHz                                | 23      | 25      |         | dB                 |
| 934 MHz – 1000 MHz                               | 35      | 45      |         | dB                 |
| RF Power   |         |         | 10      | dBm                |
| Operating temperature range                      | -45     |         | +120    | °C                 |
| Storage temperature range                        | -45     |         | +120    | °C                 |
| Temperature coefficient of frequency             |         | -0.03   |         | ppm/K <sup>2</sup> |
| Impedance Z <sub>S</sub>                         |         | 93  2.2 |         | Ω   pF             |
| Impedance Z <sub>L</sub>                         |         | 93  2.2 |         | Ω   pF             |

**Electrostatic Sensitive Device**

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



**Typical performance:**



**Matching network to 50 Ω:**

$L_{IN}$ : 18 nH  
 $C_{IN}$ : 2.5 pF

$L_{OUT}$ : 18 nH  
 $C_{OUT}$ : 2.5 pF

