

## SR869C 1-port Resonator

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

### Test Conditions:

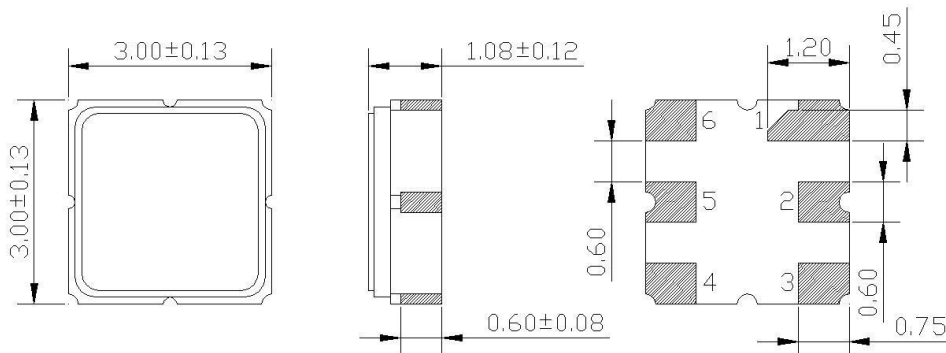
RF power	0 dBm
Temperature	23 °C
DC Voltage	0 V
Terminating source impedance ( $Z_S$ ):	50 $\Omega$
Terminating load impedance ( $Z_L$ ):	50 $\Omega$

		minimum	typical	maximum	unit
Centre frequency * <sup>1</sup>	$f_C$	868.2	868.35	868.5	MHz
Insertion Loss	$I_L$		1.0	1.7	dB
Unloaded quality factor	$Q_U$	8000	8500		
Ageing of center frequency				50	ppm
Equivalent Circuit elements					
Motional capacitance	$C_1$		1.7		fF
Motional inductance	$L_1$		19.757		$\mu$ H
Motional resistance	$R_1$		12.7		$\Omega$
Parallel capacitance	$C_0$		2.7		pF
Operating temperature range		-40		+125	°C
Storage temperature range		-40		+125	°C
Turnover temperature	$T_0$	15		30	°C
Temperature coefficient of frequency	$TC_F$		-0.032		ppm/K <sup>2</sup>

\*<sup>1</sup> Centre frequency is defined as maximum of the real part of the admittance.

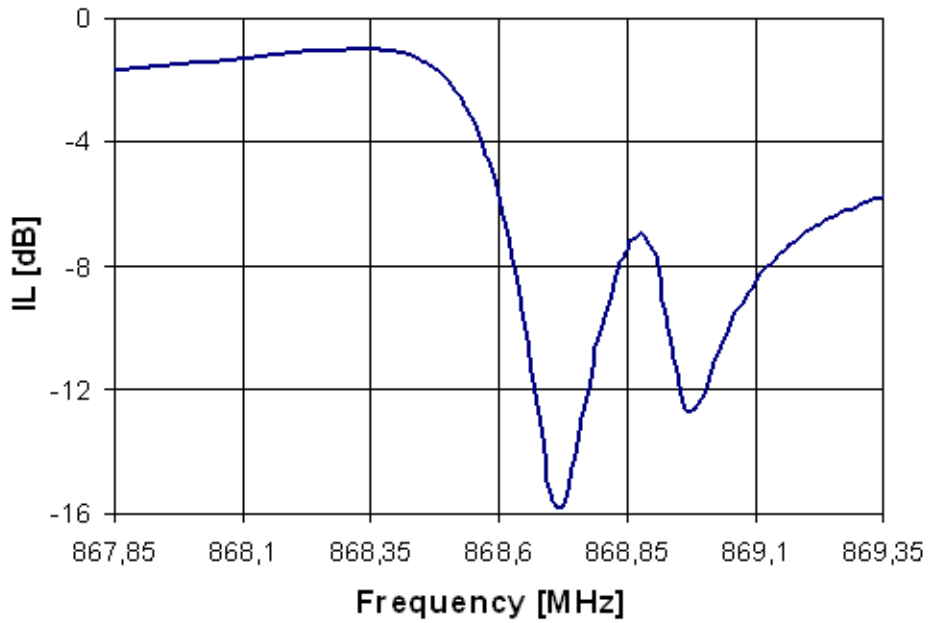
### Electrostatic Sensitive Device

#### Package: S25 / 3\*3mm<sup>2</sup>



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

## Typical performance:



## Equivalent Circuit:

