

SR869E 2-port Resonator

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

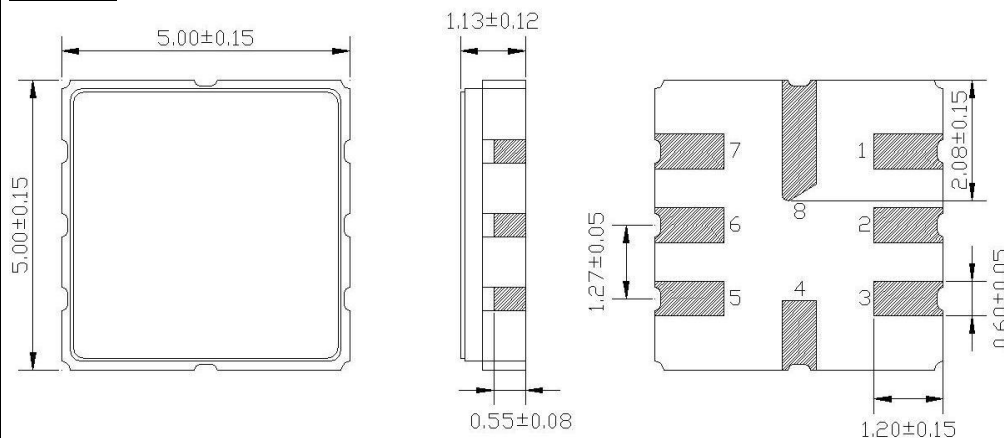
Test Conditions:

RF power	-10 dBm
Temperature	23 °C
DC Voltage	0 V
Terminating source impedance (Z _S):	50 Ω
Terminating load impedance (Z _L):	50 Ω

		minimum	typical	maximum	unit
Centre frequency	f _c	868.270	868.370	868.470	MHz
Insertion Loss	I _L		8.0	9.0	dB
Phase @ f _c	Pin configuration A Pin configuration B		+131 -37		° el. ° el.
Loaded quality factor	Q _L	3900	4200		
Unloaded quality factor	Q _U	7000	7500		
Ageing of centre frequency				50	ppm
Equivalent Circuit elements					
Motional capacitance	C ₁		0,227		fF
Motional inductance	L ₁		148.015		μH
Motional resistance	R ₁		110		Ω
Parallel capacitance	C ₀		2.2		pF
RF Power				0	dBm
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 ²

Electrostatic Sensitive Device

Package: S52 / 5.0*5.0mm²



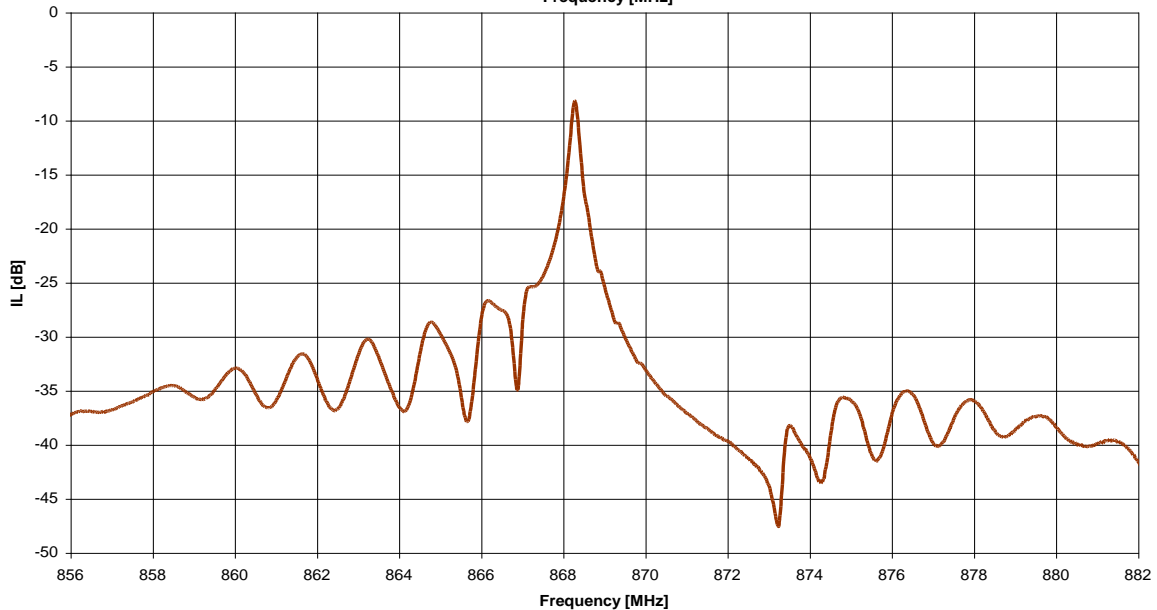
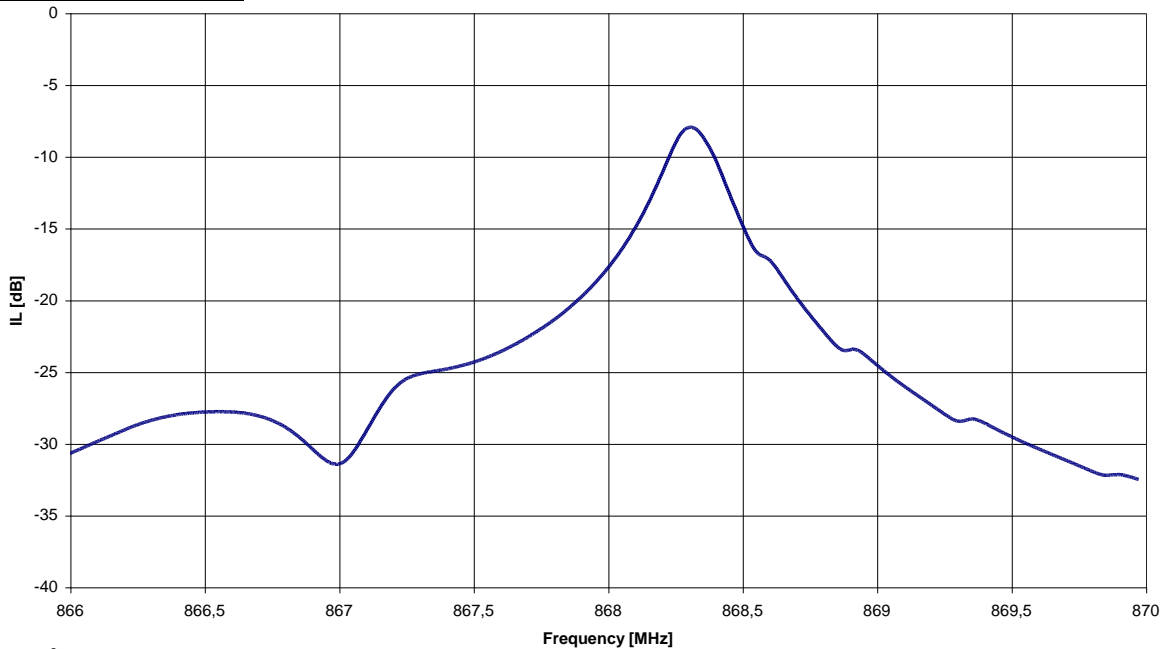
Pin configuration A: nominal phase 180°

Pin 2	Input / Output	OR	Pin 3	Input / Output
Pin 6	Output / Input		Pin 7	Output / Input
Pin 1, 5	not connected		Pin 1, 5	not connected
Pin 3	Input Ground / Output Ground		Pin 2	Input Ground / Output Ground
Pin 7	Output Ground / Input Ground		Pin 6	Output Ground / Input Ground
Pin 4, 8	Case Ground		Pin 4, 8	Case Ground

Pin configuration B: nominal phase 0°

Pin 2	Input / Output	OR	Pin 3	Input / Output
Pin 7	Output / Input		Pin 6	Output / Input
Pin 1, 5	not connected		Pin 1, 5	not connected
Pin 3	Input Ground / Output Ground		Pin 2	Input Ground / Output Ground
Pin 6	Output Ground / Input Ground		Pin 7	Output Ground / Input Ground
Pin 4, 8	Case Ground		Pin 4, 8	Case Ground

Typical performance:



Specification

Equivalent Circuit:

Co: 2,2 pF L1: 148,015 μ H
C1: 0,227 fF R1: 110 Ω

