

SAW Resonator 1500.10MHz
Part No: MP10263

Model: TC0672A
Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device

1. Input Power Level: 0dBm
2. DC voltage: 0V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1 (MSL1)

B. ELECTRICAL CHARACTERISTICS:

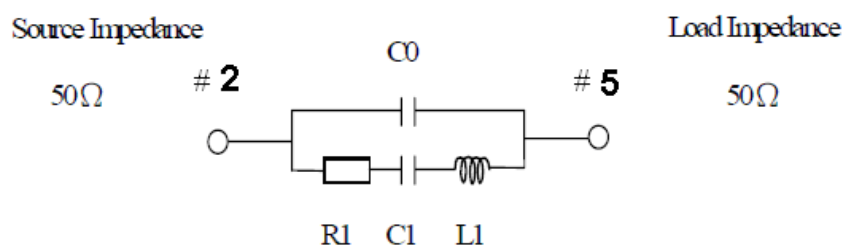
Characteristics	Unit	Min.	Typ.	Max.
Center frequency	MHz	1499.9	1500.1	1500.3
Insertion Loss	dB		0.9	2.5
Unloaded Q Factor	-		4000	
Motional Capacitance	fF		3.8017	
Motional Inductance	μH		2.9613	
Motional Resistance	Ω		4.7875	
Parallel Capacitance	pF		2.3389	
Frequency Temperature coefficient (TC _f)	ppm/°C ²	-0.032 Typ.		
Turnover To	°C	10	35	60
Package size	mm	3.0 x 3.0		

Notes:

1. Frequency defined by Y_r (real) peak at room temperature.
2. Temperature dependence of F_c: $F_c(T_A) = F_c(T_O) (1 - TC_f(T_A - T_O)^2)$

C. EQUIVALENT CIRCUIT:

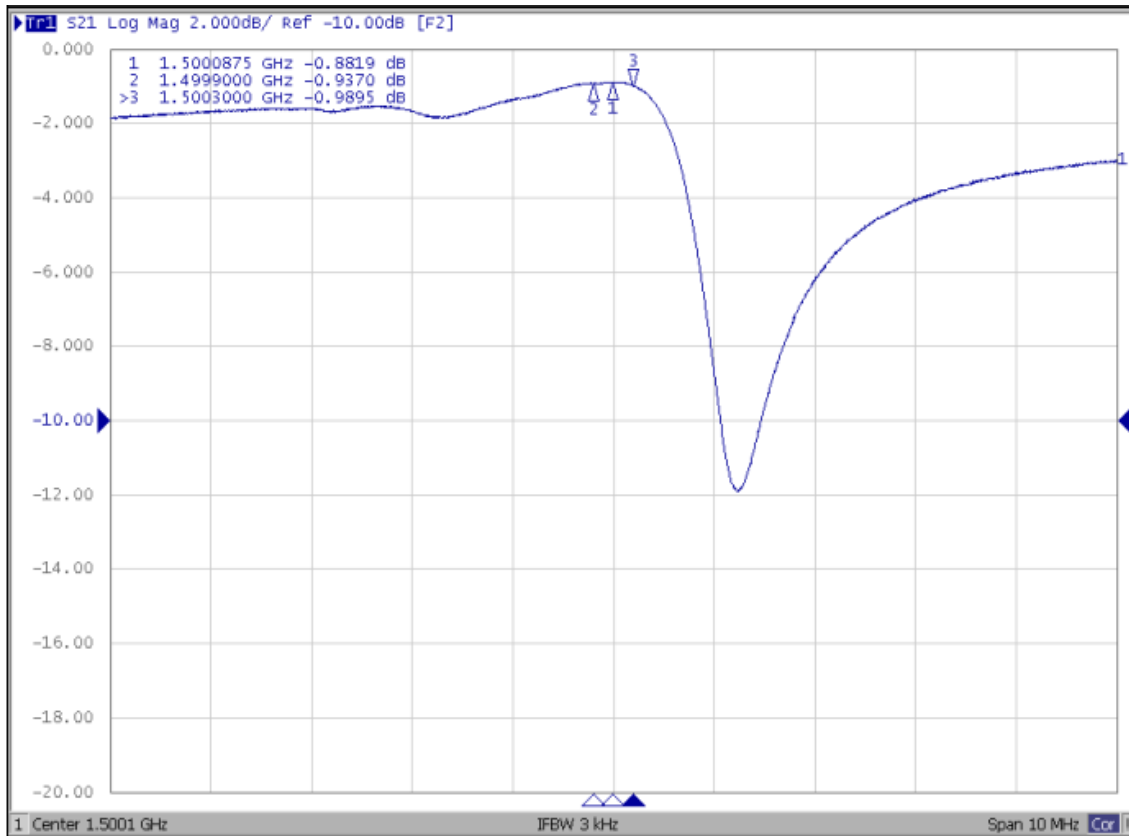
One-Port Resonator:



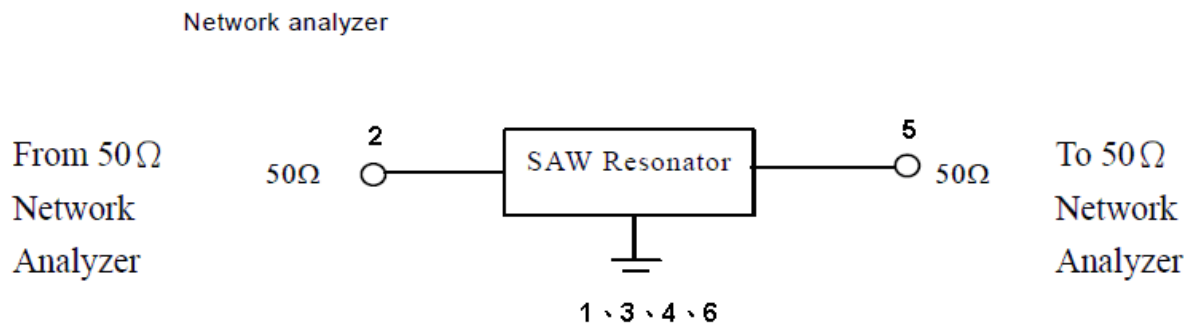
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D. FREQUENCY CHARACTERISTICS:



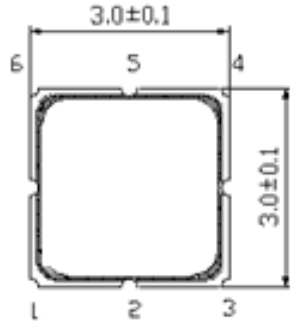
E. TEST CIRCUIT:



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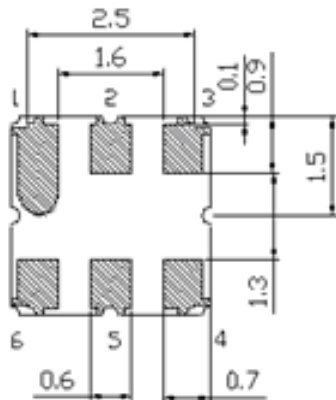
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F. MECHANICAL DIMENSIONS:



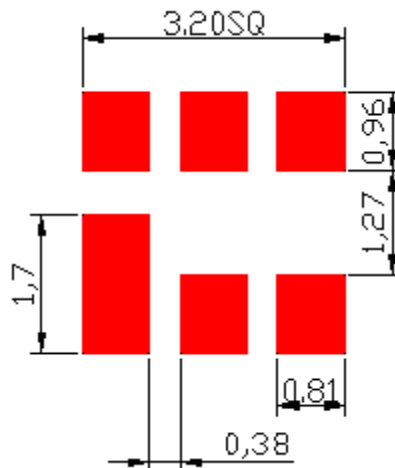
Unit : mm

Not Specified Tolerance : +/-0.15 mm



Pin No.	Symbol	Function
1	GND	Ground
2	IN	Input
3	GND	Ground
4	GND	Ground
5	OUT	Output
6	GND	Ground

G. PCB FOOTPRINT:



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I. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150 ~ 180°C for 60 ~ 90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50 ~ 80 seconds and at 260°C +0/-5°C peak (20~40sec).
4. Time: 2 times.

