



SAW Components

Data Sheet R 2638

Data Sheet

An abstract, grayscale graphic featuring a globe with a grid pattern, overlaid with a large, stylized, and slightly blurred "EPCOS" logo. The logo is rendered in a light gray, almost white, color, giving it a three-dimensional appearance as if it's floating or attached to the globe. The background is dark and textured, with some light streaks and a sense of motion.



SAW Components

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Resonator

384,05 MHz

Data Sheet

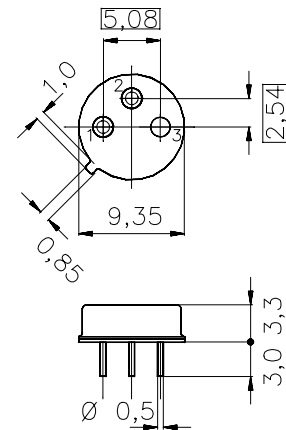
Metal package TO-39

Features

- 2-port resonator
- nominal 180°-phase at resonance
- Provides reliable, fundamental mode, quartz frequency stabilization i.e. in transmitters or local oscillators

Terminals

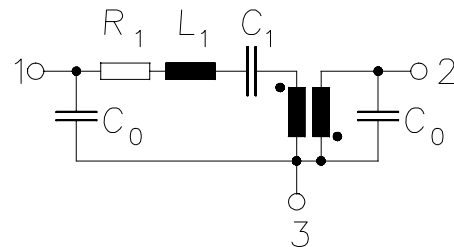
- NiFeCo, gold plated



Dimensions in mm, approx. weight 1,0 g

Pin configuration

- | | |
|---|----------------|
| 1 | Input / Output |
| 2 | Output / Input |
| 3 | Ground |



Type	Ordering code	Marking and Package according to	Packing according to
R2638	B39381-R2638-B110	C61157-A7-A24	F61074-V8072-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T_A	-45/+85	°C	between any terminals
Storage temperature range	T_{stg}	-45/+85	°C	
DC voltage	V_{DC}	12	V	
Source power	P_S	0	dBm	



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Characteristics

Reference temperature: $T_A = 25\text{ °C}$
 Terminating Source impedance: $Z_S = 50\ \Omega$
 Terminating Load impedance: $Z_L = 50\ \Omega$

		min.	typ.	max.	
Center frequency (center frequency between 3 dB points)	f_c	383,950	384,050	384,150	MHz
Minimum insertion attenuation	$\alpha_{\min}$	—	8,0	9,5	dB
Phase at f_c	φ	—	160	—	° el.
Loaded quality factor	Q_L	5000	7800	—	
Unloaded quality factor	Q_U	8000	13000	—	
Ageing of f_c		—	—	±50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	—	0,2	—	fF
Motional inductance	L_1	—	0,9	—	μH
Motional resistance	R_1	—	160	—	Ω
Input / Output capacitance	C_0	—	1,7	—	pF
Temperature coefficient of frequency ¹⁾	TC_f	—	-0,03	—	ppm/K ²
Turnover temperature	T_0	—	30	—	°C

¹⁾ Temperature dependence of f_c : $f_c(T_A) = f_c(T_0)(1 + TC_f(T_A - T_0)^2)$



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