



SAW Components

Data Sheet R 2534





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R 2534

Resonator

303,875 MHz

Data Sheet

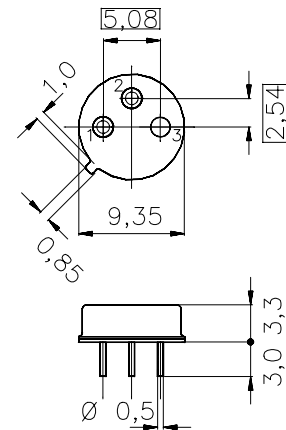
Metal package TO-39

Features

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

Terminals

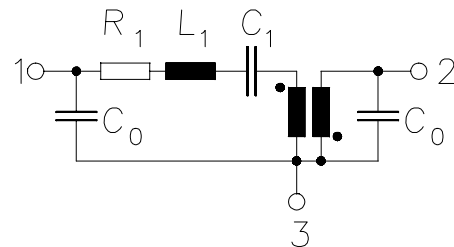
- NiFeCo, gold plated



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
R2534	B39301-R2534-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	303,775	303,875	303,975	MHz
Minimum insertion attenuation	α_{\min}	—	6,5	8,5	dB
Phase at f_c	φ	—	160	—	° el.
Loaded quality factor	Q_L	5000	8000	—	
Unloaded quality factor	Q_U	9000	15100	—	
Ageing of f_c		—	—	±50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	—	0,3	—	fF
Motional inductance	L_1	—	0,9144	—	μH
Motional resistance	R_1	—	155	—	Ω
Input / Output capacitance	C_0	—	2,2	—	pF
Temperature coefficient of frequency ¹⁾	TC_f	—	-0,03	—	ppm/K ²
Turnover temperature	T_0	—	40	—	°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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