

SAW Components

Data Sheet R 2523





SAW Components	R 2523
Resonator	224,50 MHz

Data Sheet

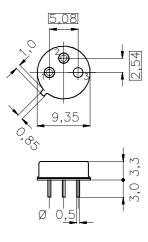
Features

- 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

Metal package TO-39

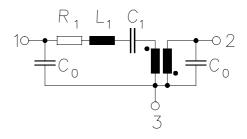


Dimensions in mm, approx. weight 1,0 g

Pin configuration

Input / Ouptput 1 2 Output / Input Ground

3



Туре	Ordering code	Marking and Package	Packing		
		according to	according to		
R2523	B39221-R2523-B110	C61157-A7-A24	F61074-V8072-Z000		

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T_{A}	-45/+85	°C	
Storage temperature range	$T_{\rm stg}$	-45/+85	°C	
DC voltage	$V_{\rm DC}$	12	V	between any terminals
Source power	P_{s}	0	dBm	-



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Characteristics

Reference temperature: $T_{\rm A}=25\,^{\circ}{\rm C}$ Terminating Source impedance: $Z_{\rm S}=50\,\Omega$ Terminating Load impedance: $Z_{\rm L}=50\,\Omega$

		min.	typ.	max.	
Center frequency	f _c	224,450	224,500	224,550	MHz
(center frequency between 3 dB points)					
Minimum insertion attenuation	α_{min}	_	8,5	10,0	dB
Phase at f _c	φ	150	165	180	° el.
Loaded quality factor	Q_L	7000	9300	_	
Unloaded quality factor	Q_U	11000	15000	_	
Ageing of f _c		_	_	±50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	_	0,3	_	fF
Motional inductance	L_1	_	1,8	_	μН
Motional resistance	R_1	_	180	_	Ω
Input / Output capacitance	C_0	_	2,1	_	pF
Temperature coefficient of frequency 1)	TC_{f}	_	-0,03	_	ppm/K ²
Turnover temperature	T_0	35	45	55	°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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