

SAW Components

Data Sheet R 680





SAW Components	R 680
Resonator	444,50 MHz

Data Sheet

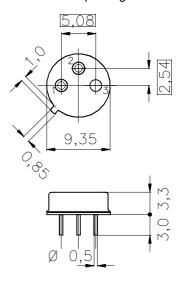
Features

- 1-port resonator
- Provides reliable, fundamental mode, quartz frequency stabilization i. e. in transmitter or local oscillators

Terminals

■ NiFeCo, gold plated

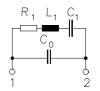
Metal package TO 39



Dimensions in mm, approx. weight 1,0 g

Pin configuration

1 Input2 Ground3 Ground (case)



Туре	Ordering code	Marking and Package according to	Packing according to	
R 680	B39441-R 680-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 1)	$f_{\rm C}$	444,425	444,500	444,575	MHz
Minimum insertion attenuation	α_{min}	_	1,1	1,8	dB
Unloaded quality factor	Q_{U}	6000	11000		
Ageing of f _c		_	_	± 50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	_	2,394	_	fF
Motional inductance	L_1	_	53,55	_	μΗ
Motional resistance	R_1	_	14	25	Ω
Parallel capacitance	C_0	_	3,4	_	pF
Temperature coefficient of frequency 2)	TC _f	_	- 0,03	_	ppm/K ²
Turnover temperature	T_0	5	_	35	°C

¹⁾ Center frequency is defined as maximum of the real part of the admittance

²⁾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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