

SAW Components

Data Sheet R 689





SAW Components	R 689
Resonator	407,30 MHz

Data Sheet

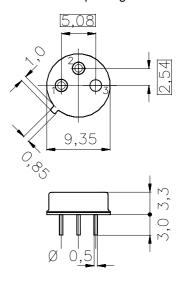
Features

- 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 Input 2 Ground

3 Ground (case)



Туре	Ordering code	Marking and Package according to	Packing according to		
R 689	B39411-R 689-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)	$f_{\rm C}$	407,225	407,300	407,375	MHz
Minimum insertion attenuation	α_{min}	_	1,0	1,6	dB
Unloaded quality factor	Q_{U}	7500	14000	_	
Ageing of f_c		_	_	± 50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	_	2,356	_	fF
Motional inductance	L_1	_	64,82	_	μΗ
Motional resistance	R_1	_	12	22	Ω
Parallel capacitance	C_0	_	2,8	_	pF
Temperature coefficient of frequency ²⁾	TC_{f}	_	- 0,03	_	ppm/K ²
Turnover temperature	T_0	40	_	70	°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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