imall

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SAW Components

Data Sheet R 771





SAW Components

Resonator

R 771 314,875 / 315,125 MHz

Ceramic package QCC8C

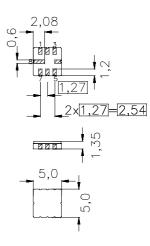
Data Sheet

Features

- 1-port resonator (2 Resonators in 1 housing)
- Provides reliable, fundamental mode, quartz frequency stabilization i.e. in transmitters or local oscillators
- Protection layer: Protec

Terminals

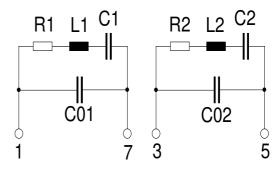
Ni, gold plated



Dimensions in mm, approx. weight 0,1 g

Pin configuration

1 3	Input Reso 1 Input Reso 2
7	Output Reso 1
5	Output Reso 2
4,8	Ground (case)
2,6	float



Туре	Ordering code	Marking and Package	Packing		
		according to	according to		
R 771	B39311-R 771-U310	C61157-A7-A56	F61074-V8169-Z000		

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T _A	-45/+120	°C	
Storage temperature range	T _{stg}	-45/+120	°C	
DC voltage	$V_{\rm DC}$	12	V	between any terminals
Source power	$P_{\rm s}^{\rm s}$	0	dBm	



Mar 03, 2004



SAW Components	R 7	71
Resonator	314,875 / 315,125 M	Hz
Data Sheet		
Characteristics Resonator 1		
Reference temperature: Terminating source impedance: Terminating Load impedance:	$T_{A} = 25 °C$ $Z_{S} = 50 \Omega$ $Z_{L} = 50 \Omega$	
	min tun may	

		min.	typ.	max.	
Center frequency Resonator 1 ¹⁾	f _c	314,825	314,875	314,925	MHz
Frequency offset Resonator 2 to Resonator 1	f _{offset}	200,0	250,0	300,0	KHz
Minimum insertion attenuation	$lpha_{min}$	_	1,3	1,6	dB
Unloaded quality factor	Q_{U}	9600	13200	_	
Ageing of f _c		_	—	± 50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	_	2,39	_	fF
Motional inductance	L ₁		106,94	—	μH
Motional resistance	R_1		16	22	Ω
Parallel capacitance ²⁾	<i>C</i> ₀₁	—	3,1	—	pF
Temperature coefficient of frequency ³⁾	$TC_{\rm f}$	_	- 0,03	_	ppm/K ²
Turnover temperature	<i>T</i> ₀	0		30	°C

1) Center frequency is defined as the maximum of the real part of the admittance. 2) If used in two port configuration (pin 1-input, pin 7-output) C_0 is reduced by approx. 0,3 pF. 3) Temperature dependence of f_c : $f_c(T_A) = f_c(T_0)(1 + TC_f(T_A - T_0)^2)$



SAW Components					R 771
Resonator			314,87	/5 / 315,12	25 MHz
Data Sheet					
Characteristics Resonator 2					
Reference temperature: Terminating source impedance: Terminating Load impedance:	$T_{A} = 25 °C$ $Z_{S} = 50 \Omega$ $Z_{L} = 50 \Omega$				
		min.	typ.	max.	
	£	015 075	015 105	015 175	

Center frequency Resonator 2 ¹⁾	f _c	315,075	315,125	315,175	MHz
Frequency offset Resonator 2 to Resonator 1	f _{offset}	200,0	250,0	300,0	KHz
Minimum insertion attenuation	$lpha_{min}$	_	1,3	1,6	dB
Unloaded quality factor	Q_{U}	9600	13200	_	
Ageing of <i>f</i> _c		_		± 50	ppm
Equivalent circuit elements					
Motional capacitance	C_2	_	2,38	_	fF
Motional inductance	L ₂	—	107,32	—	μH
Motional resistance	R_2	—	16	22	Ω
Parallel capacitance ²⁾	C ₀₂	_	3,1	_	pF
Temperature coefficient of frequency ³⁾	TC _f		- 0,03		ppm/K ²
Turnover temperature	<i>T</i> ₀	0		30	°C

1) Center frequency is defined as the maximum of the real part of the admittance. 2) If used in two port configuration (pin 3-input, pin 5-output) C_0 is reduced by approx. 0,3 pF. 3) 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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SAW Components

R 771 314,875 / 315,125 MHz

Data Sheet

Resonator

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Mar 03, 2004