

SAW Components

Data Sheet R 718





SAW Components

Resonator

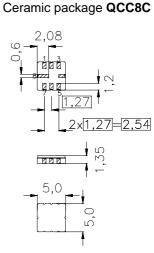
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Features

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

Terminals

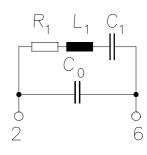
Ni, gold plated



Dimensions in mm, approx. weight 0,1 g

Pin configuration

-	
2	Input
6	Ground
4,8	Ground (case)



Туре	Ordering code	Marking and Package	Packing		
		according to	according to		
R 718	B39301-R 718-U310	C61157-A7-A56	F61074-V8070-Z000		

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T _A	-45/+85	°C	
Storage temperature range	T _{stg}	-45/+85	°C	
DC voltage	$V_{\rm DC}$	12	V	between any terminals
Source power	Ps	0	dBm	

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R 718 303,825 MHz



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

		min.	typ.	max.	
Center frequency 1)	f _c	303,740	303,825	303,910	MHz
Minimum insertion attenuation	α_{min}	_	1,7	2,2	dB
Unloaded quality factor	Q_{U}	9400	13500	_	
Ageing of <i>f</i> _c		_	_	± 50	ppm
Equivalent circuit elements					
Motional capacitance	C_1		1,84	_	fF
Motional inductance	L_1		149,13	_	μH
Motional resistance	R_1		21	30	Ω
Parallel capacitance	C_0	—	3,1	_	pF
Temperature coefficient of frequency ²⁾	TC _f	—	-0,032	—	ppm/K ²
Turnover temperature	T_0	25	—	55	°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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