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![EPCOS logo]

SAW Components

Data Sheet R 715

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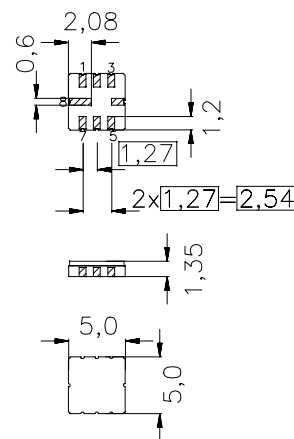| SAW Components	R 715
Resonator	433,32 MHz

Data Sheet

SMD Ceramic package **QCC8C**

Features

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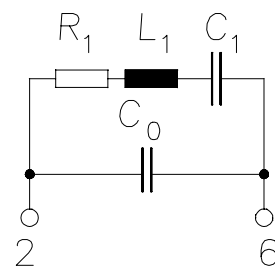
Terminals

- Ni, gold plated

Dimensions in mm, approx. weight 0,1 g

Pin configuration

2	Input
6	Output, grounded in 1-port conf.
4,8	Ground (case)
1,3	float
5,7	float / ground

Type	Ordering code	Marking and Package according to	Packing according to
R 715	B39431-R 715-U310	C61157-A7-A56	F61074-V8023-Z000

Electrostatic **S**ensitive **D**evice (**ESD**)

Maximum ratings

Operable temperature range	T_A	−45/+85	°C	
Storage temperature range	T_{stg}	−45/+85	°C	
DC voltage	V_{DC}	12	V	between any terminals
Source power	P_s	0	dBm	

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SAW Components					**R 715**
Resonator					**433,32 MHz**

Data Sheet

Characteristics

Reference temperature:	T_A = 25 $^\circ$C
Terminating Source impedance:	Z_S = 50 Ω
Terminating Load impedance:	Z_L = 50 Ω

		min.	**typ.**	**max.**	
Center frequency [1]	f_c	433,245	433,32	433,395	MHz
Minimum insertion attenuation	α_{min}	—	1,4	1,9	dB
Unloaded quality factor	Q_U	7000	13000	—	
Ageing of f_c		—	—	±50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	—	1,81	—	fF
Motional inductance	L_1	—	74,53	—	µH
Motional resistance	R_1	—	16	30	Ω
Parallel Capacitance [2]	C_0	—	3,3	—	pF
Temperature coefficient of frequency [3]	TC_f	—	– 0,032	—	ppm/K^2
Turnover temperature	T_0	0	—	30	$^\circ$C

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

[2] If used in two port configuration (pin 2-input, pin 6-output) C_0 is reduced by approx. 0,3 pF.

[3] Temperature dependence of f_c: $\quad f_c(T_A) = f_c(T_0)(1 + TC_f(T_A - T_0)^2)$

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SAW Components	R 715
Resonator	**433,32 MHz**

Data Sheet

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