



SAW Components

Data Sheet R 715

Data Sheet



| | |
|----------------|------------|
| SAW Components | R 715 |
| Resonator | 433,32 MHz |

Data Sheet

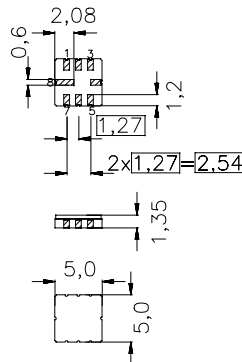
SMD Ceramic package **QCC8C**

Features

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

Terminals

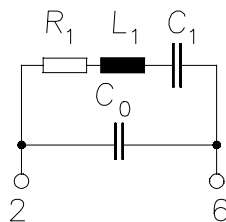
- Ni, gold plated



Dimensions in mm, approx. weight 0,1 g

Pin configuration

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



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

Electrostatic Sensitive Device (ESD)

Maximum ratings

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

Data Sheet
Characteristics

Reference temperature: $T_A = 25\text{ °C}$
Terminating Source impedance: $Z_S = 50\ \Omega$
Terminating Load impedance: $Z_L = 50\ \Omega$

| | | 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 | C_0 | — | 3,3 | — | pF |
| Temperature coefficient of frequency ²⁾ | TC_f | — | - 0,032 | — | ppm/K ² |
| Turnover temperature | T_0 | 0 | — | 30 | °C |

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

²⁾ Temperature dependence of f_c : $f_c(T_A) = f_c(T_0)(1 + TC_f(T_A - T_0)^2)$

**Published by EPCOS AG****Surface Acoustic Wave Components Division, OFW E UE****P.O. Box 80 17 09, D-81617 München**

© EPCOS AG 1999. All Rights Reserved.

As far as patents or other rights of third parties are concerned, liability is only assumed for components per se, not for applications, processes and circuits implemented within components or assemblies.

The information describes the type of component and shall not be considered as assured characteristics.

Terms of delivery and rights to change design reserved.

For questions on technology, prices and delivery please contact the sales offices of EPCOS AG or the international representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our sales offices.