



# SAW Components

Data Sheet R 724





Data Sheet

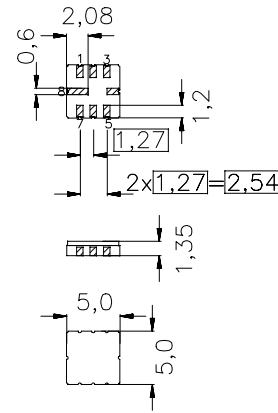
Ceramic package **QCC8C**

Features

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

Terminals

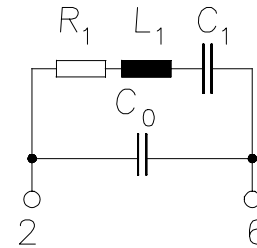
- Ni, gold plated



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 724	B39401-R 724-U310	C61157-A7-A56	F61074-V8070-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	



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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.	
<b>Center frequency</b> <sup>1)</sup>	$f_c$	403,891	403,966	404,041	MHz
<b>Minimum insertion attenuation</b>	$\alpha_{\min}$	—	1,4	2,0	dB
Unloaded quality factor	$Q_U$	7500	12900	—	
<b>Ageing of <math>f_c</math></b>		—	—	$\pm 50$	ppm
<b>Equivalent circuit elements</b>					
Motional capacitance	$C_1$	—	1,710	—	fF
Motional inductance	$L_1$	—	90,77	—	$\mu\text{H}$
Motional resistance	$R_1$	—	17	27	$\Omega$
Parallel capacitance	$C_0$	—	2,6	—	pF
<b>Temperature coefficient of frequency</b> <sup>2)</sup>	$TC_f$	—	-0,032	—	ppm/K <sup>2</sup>
<b>Turnover temperature</b>	$T_0$	10	—	40	$^{\circ}\text{C}$

<sup>1)</sup> Center frequency is defined as maximum of the real part of the admittance

<sup>2)</sup> 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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**R 724**

**Resonator**

**403,966 MHz**

Data Sheet

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