



SAW Components

Data Sheet R 724

Data Sheet

An abstract, grayscale graphic featuring a globe with a grid pattern, overlaid with a large, stylized, and slightly blurred "EPCOS" logo. The logo is rendered in a light gray, almost white, color, giving it a three-dimensional appearance as if it's floating or attached to the globe. The background is dark and textured, with some light streaks and a sense of motion or depth.

EPCOS



SAW Components

R 724

Resonator

403,966 MHz

Data Sheet

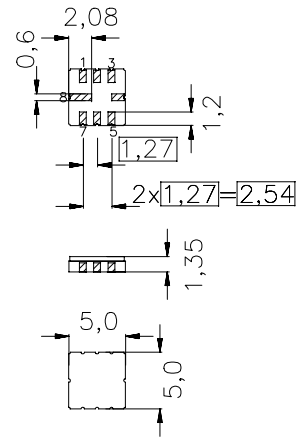
Ceramic package **QCC8C**

Features

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

Terminals

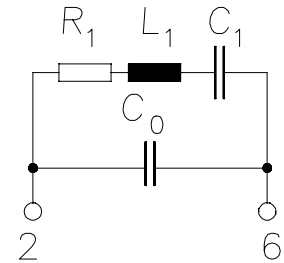
- Ni, gold plated



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: $Z_S = 50\text{ }\Omega$
 Terminating load impedance: $Z_L = 50\text{ }\Omega$

		min.	typ.	max.	
Center frequency ¹⁾	f_c	403,891	403,966	404,041	MHz
Minimum insertion attenuation	$\alpha_{\min}$	—	1,4	2,0	dB
Unloaded quality factor	Q_U	7500	12900	—	
Ageing of f_c		—	—	± 50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	—	1,710	—	fF
Motional inductance	L_1	—	90,77	—	μH
Motional resistance	R_1	—	17	27	Ω
Parallel capacitance	C_0	—	2,6	—	pF
Temperature coefficient of frequency ²⁾	TC_f	—	- 0,032	—	ppm/K ²
Turnover temperature	T_0	10	—	40	°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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