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EPCOS (TDK)
B39801R2712U310

For any questions, you can email us directly:
sales@integrated-circuit.com

SAW Components

Data Sheet R2712

EPCOS

SAW Components	R2712
Resonator	**804.50 MHz**

Data Sheet

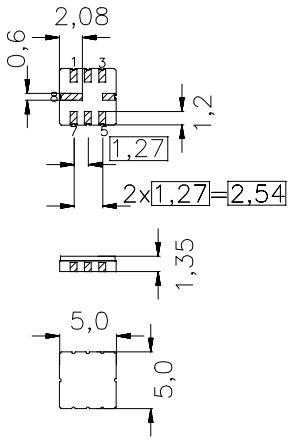
SMD Ceramic package **QCC8C**

Features

- 2-port resonator
- nominal 180˚-phase at resonance
- Provides reliable, fundamental mode, quartz frequency stabilization i.e. in transmitters or local oscillators
- Passivation layer: Protec

Terminals

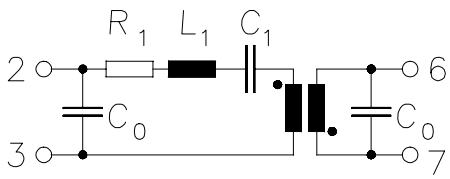
- Ni, gold plated



Dimensions in mm, approx. weight 0,1 g

Pin configuration

2	Input / Ouptput
6	Output / Input
7	Ground (Input / Output)
3	Ground (Output / Input)
4,8	Ground (case)



Type	Ordering code	Marking and Package according to	Packing according to
R2712	B39801-R2712-U310	C61157-A7-A56	F61074-V8169-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}	0	V	between any terminals
Source power	P_s	0	dBm	

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Characteristics

Reference temperature: T_A = 25 °C
Terminating Source impedance: Z_S = 50 Ω
Terminating Load impedance: Z_L = 50 Ω

		min.	typ.	max.	
Center frequency (center frequency between 3 dB points)	f_c	804,25	804.5	804,75	MHz
Minimum insertion attenuation	α_{min}	—	6,3	8,3	dB
Phase at f_c	φ	—	140	—	° el.
Loaded quality factor	Q_L	3000	3700	—	
Unloaded quality factor	Q_U	6300	7500	—	
Ageing of f_c		—	—	–10/+40	ppm
Equivalent circuit elements					
Motional capacitance	C_1	—	0,293	—	fF
Motional inductance	L_1	—	133,8	—	µH
Motional resistance	R_1	—	91	—	Ω
Input / Output capacitance	C_0	—	1,6	—	pF
Temperature coefficient of frequency [1]	TC_f	—	–0,03	—	ppm/K²
Turnover temperature	T_0	15	—	35	°C

[1] 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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This brochure replaces the previous edition.

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