

SAW Components

Data Sheet R980





SAW Components R980
Resonator 433,92 MHz

Data Sheet



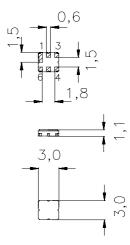
Ceramic package **DCC6C**

Features

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

Terminals

■ Ni, gold plated



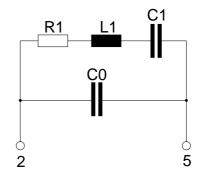
Dimensions in mm, approx. weight 0,037 g

Pin configuration

2 Input

5 Output, grounded in 1-port conf.

1, 3, 4, 6 Ground (case)



Туре	Ordering code	Marking and Package	Packing		
		according to	according to		
R980	B39431-R 980-U410	C61157-A7-A67	F61074-V8168-Z000		

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T_{A}	-40/+125	°C	
Storage temperature range	$T_{\rm stg}$	-40/+125	°C	
DC voltage	$V_{\rm DC}$	12	V	between any terminals
Source power	P_{s}	0	dBm	



SAW Components R980

Resonator 433,92 MHz

Data Sheet

Characteristics

 $\begin{array}{ll} \mbox{Reference temperature:} & T_{\mbox{A}} = 25 \ ^{\circ} \mbox{C} \\ \mbox{Terminating source impedance:} & Z_{\mbox{S}} = 50 \ \Omega \\ \mbox{Terminating load impedance:} & Z_{\mbox{L}} = 50 \ \Omega \end{array}$

		min.	typ.	max.	
Center frequency 1)	$f_{\rm c}$	433,820	433,920	434,020	MHz
Minimum insertion attenuation	α_{min}	_	1,4	1,9	dB
Unloaded quality factor	Q_{U}	8300	12000	_	
Ageing of f_c		_	_	-50/+50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	_	1,685	_	fF
Motional inductance	L_1	_	79,82	_	μΗ
Motional resistance	R_1	_	18	26	Ω
Parallel capacitance 2)	C_0	_	2,3	_	pF
Temperature coefficient of frequency 3)	TC_{f}	_	-0,032	_	ppm/K ²
Turnover temperature	T_0	20	_	50	°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 5-output) C_0 is reduced by approx. 0,3 pF.

 $^{^{3)}}$ Temperature dependence of $f_{\rm c}$: $f_{\rm c}(T_{\rm A}) = f_{\rm c}(T_0)(1 + TC_{\rm f}(T_{\rm A} - T_0)^2)$



Resonator R980

Resonator 433,92 MHz

Data Sheet

Published by EPCOS AG Surface Acoustic Wave Components Division, SAW CE AE P.O. Box 80 17 09, 81617 Munich, GERMANY

©.EPCOS AG 2004. Reproduction, publication and dissemination of this brochure and the information contained therein without EPCOS' prior express consent is prohibited.

Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

This brochure replaces the previous edition.

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.