

SAW Components

Data Sheet R 2701

Farnell Code - 7455461





SAW Components

Resonator

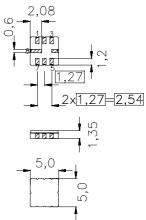
Data Sheet

Features

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

Terminals

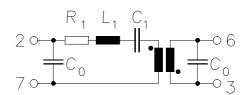
Ni, gold plated



Dimensions in mm, approx. weight 0,1 g

Pin configuration

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



Туре	Ordering code	Marking and Package	Packing
		according to	according to
R2701	B39431-R2701-U310	C61157-A7-A56	F61074-V8070-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T _A	-45/+85	°C	
Storage temperature range	T _{stg}	-45/+85	°C	
DC voltage	V _{DC}	12	V	between any terminals
Source power	Ps	0	dBm	



R 2701 433,92 MHz

SMD Ceramic package QCC8C

May 09, 2001



SAW Components					R 2701
Resonator			433,	92 MHz	
Data Sheet					
Characteristics					
Reference temperature: Terminating Source impedance: Terminating Load impedance:	$T_{A} = 25^{\circ} \Omega$ $Z_{S} = 50 \Omega$ $Z_{L} = 50 \Omega$	2			
		min.	typ.	max.	
Center frequency	f _c	433,845	433,920	433,995	MHz
(center frequency between 3 dB points)					
Minimum insertion attenuation	$lpha_{min}$	_	9,2	10,5	dB
Phase at f _c	φ	_	160	_	°el.
Loaded quality factor	Q_L	5000	7800	_	
Unloaded quality factor	Q_U	8000	11200	_	
Ageing of f _c		—	_	±50	ppm
Equivalent circuit elements					
Motional capacitance	C ₁	_	0,141	_	fF
Motional inductance	L ₁	_	954	_	μH
Motional resistance	R ₁		230	_	Ω
Input / Output capacitance	C ₀		2,3		pF
	TO		0.00		11/2

 $TC_{\rm f}$

 T_0

ppm/K²

°C

-0,03

40

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

Temperature coefficient of frequency ¹⁾

Turnover temperature

3



SAW Components	R 2701
Resonator	433,92 MHz

Data Sheet

Published by EPCOS AG Surface Acoustic Wave Components Division, SAW CE AE PD P.O. Box 80 17 09, D-81617 München

© EPCOS AG 2001. 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.

