

# **Excellent Integrated System Limited**

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# **SAW Components**

Data Sheet R 807







SAW Components		R 807
Resonator		303,825 MHz
Data Sheet	SMD	

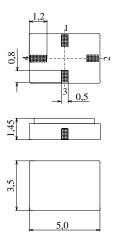
Ceramic package QCC4A

#### **Features**

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

#### **Terminals**

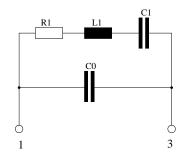
■ Ni, gold plated



Dimensions in mm, approx. weight 0,1 g

# Pin configuration

- 1 Input
- 3 Output, grounded in 1-port conf.
- 2,4 Ground (case)



Туре	Ordering code	Marking and Package	Packing	
		according to	according to	
R807	B39301-R807-H210	C61157-A7-A86	F61074-V8175-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	$P_{\rm s}$	0	dBm	





SAW Components R 807
Resonator 303,825 MHz

Data Sheet SMD

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 <sub>C</sub>	303,750	303,825	303,900	MHz
Minimum insertion attenuation	$\alpha_{min}$	_	1,2	1,6	dB
Unloaded quality factor	$Q_{U}$	12500	17300	_	
Ageing of $f_c$		_	_	-10/+50	ppm
Equivalent circuit elements					
Motional capacitance	$C_1$		1,95	_	fF
Motional inductance	$L_1$	_	140,72	_	μΗ
Motional resistance	$R_1$		15	21	Ω
Parallel capacitance 2)	$C_0$	_	2,5	_	pF
Temperature coefficient of frequency 3)	TC <sub>f</sub>	_	-0,032	_	ppm/K <sup>2</sup>
Turnover temperature	$T_0$	15	_	35	°C

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

 $<sup>^{2)}</sup>$  If used in two port configuration (pin 1-input, pin 3-output)  $C_0$  is reduced by approx. 0,3 pF.

<sup>&</sup>lt;sup>3)</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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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.