

### **Excellent Integrated System Limited**

Stocking Distributor

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EPCOS (TDK) B39301R2707U310

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





# SAW Components

Data Sheet R 2707







SAW Components	R 2707
Resonator	303,825 MHz

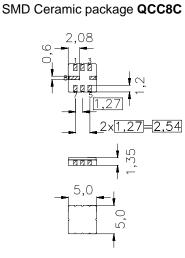
**Data Sheet** 

#### Features

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

#### Terminals

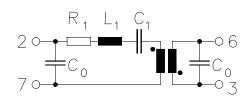
Ni, gold plated



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		
R2707	B39301-R2707-U310	C61157-A7-A56	F61074-V8070-Z000		

Electrostatic Sensitive Device (ESD)

#### **Maximum ratings**

Operable temperature range	T <sub>A</sub>	-45/+85	°C	
Storage temperature range	T <sub>stg</sub>	-45/+85	°C	
DC voltage	V <sub>DC</sub>	12	V	between any terminals
Source power	$P_{\rm s}^{-1}$	0	dBm	



## Distributor of EPCOS (TDK): Excellent Integrated System Limited Datasheet of B39301R2707U310 - RESONATOR SAW CER 303.825MHZ SMD



SAW ComponentsR 270Resonator303,825 MH					R 2707 25 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 <sub>c</sub>	303,750	303,825	303,900	MHz
(center frequency between 3 dB points)					
Minimum insertion attenuation	$\alpha_{min}$	_	8,5	10	dB
Phase at f <sub>c</sub>	φ	_	150	_	° el.
Loaded quality factor	$Q_L$	4000	6700	-	
Unloaded quality factor	Q <sub>U</sub>	6500	10000	_	
Ageing of f <sub>c</sub>		_	_	±50	ppm
Equivalent circuit elements					
Motional capacitance	C <sub>1</sub>	_	0,307	-	fF
Motional inductance	L <sub>1</sub>	_	894	-	μH
Motional resistance	R <sub>1</sub>	-	160	-	Ω
Input / Output capacitance	<b>C</b> <sub>0</sub>	-	2,4	-	pF
Temperature coefficient of frequency <sup>1)</sup>	TC <sub>f</sub>	_	-0,03	_	ppm/K <sup>2</sup>
Turnover temperature	T <sub>0</sub>	10		40	°C

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





SAW Components

Resonator Data Sheet R 2707 303,825 MHz

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