

SAW Components

Data Sheet R 854



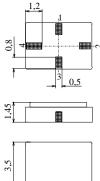


SAW Components	R 854
Resonator	314,50 MHz
Data Sheet	
	Ceramic package QCC4A
Features	
1-port resonator	1,2
Provides reliable, fundamental mode, quartz fre-	
quency stabilization i.e. in transmitters or local	∞

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- Protection layer: Protec

Terminals

Ni, gold plated

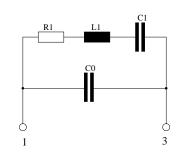


5,0

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
R854	B39311-R854-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 _{stg}	-40/+125	°C	
DC voltage	V _{DC}	12	V	between any terminals
Source power	Ps	0	dBm	

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Aug 08, 2003



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Characteristics		
Reference temperature: Terminating source impedance: Terminating load impedance:	$T_{A} = 25 ^{\circ}C$ $Z_{S} = 50 \Omega$ $Z_{I} = 50 \Omega$	

		min.	typ.	max.	
Center frequency 1)	f _c	314,45	314,50	314,55	MHz
Minimum insertion attenuation	α_{min}	_	1,3	1,6	dB
Unloaded quality factor	$Q_{\rm U}$	9700	13200	—	
Ageing of <i>f</i> _c				-10/+50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	_	2,37	—	fF
Motional inductance	L_1	_	107,99	—	μH
Motional resistance	R_1	_	16	22	Ω
Parallel capacitance ²⁾	C_0	—	3,0	—	pF
Temperature coefficient of frequency ³⁾	TC _f	_	-0,032	—	ppm/K ²
Turnover temperature	T_0	15		35	°C

¹⁾ Center frequency is defined as maximum of the real part of the admittance

 $^{2)}$ If used in two port configuration (pin 1-input, pin 3-output) \textit{C}_{0} is reduced by approx. 0,3 pF.

³⁾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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