

Excellent Integrated System Limited

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EPCOS (TDK) B39401R983U410

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SAW Components

Data Sheet R 983





Distributor of EPCOS (TDK): Excellent Integrated System Limited Datasheet of B39401R983U410 - RESONATOR SAW CER 403.55MHZ SMD



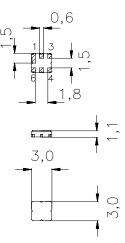
SAW Components	R 983
Resonator	403,55 MHz
Data Sheet	

Features

- 1-port resonator
- Provides reliable, fundamental mode, quartz frequency stabilization i.e. in transmitters or local oscillators
- Protection layer: ELPAS
- AEC-Q200 qualified component family

Terminals

Ni, gold plated

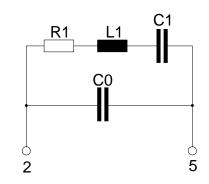


Ceramic package DCC6C

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 according to	Packing according to
R 983	B39401-R 983-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 _{stg}	-40/+125	°C	
DC voltage	V _{DC}	12	V	between any terminals
Source power	Ps	0	dBm	

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

		min.	typ.	max.	
Center frequency ¹⁾	f _c	403,45	403,55	403,65	MHz
Minimum insertion attenuation	α_{min}		1,5	1,9	dB
Unloaded quality factor	$Q_{\rm U}$	8600	12200		
Ageing of <i>f</i> _c				-50/+50	ppm
Equivalent circuit elements					
Motional capacitance	C_1		1,7	_	fF
Motional inductance	L_1		91,84	_	μH
Motional resistance	R_1		19	27	Ω
Parallel capacitance ²⁾	C_0		2,5	_	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_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.