

# **SAW Components**

Data Sheet R 2528





SAW Components	R 2528
Resonator	418,00 MHz

**Data Sheet** 

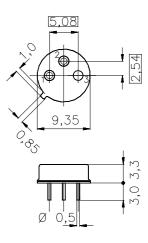
#### **Features**

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

#### **Terminals**

■ NiFeCo, gold plated

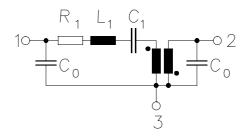
## Metal package TO-39



Dimensions in mm, approx. weight 1,0 g

## Pin configuration

- 1 Input / Ouptput 2 Output / Input
- 3 Ground



Туре	Ordering code	Marking and Package	Packing		
		according to	according to		
R2528	B39421-R2528-B110	C61157-A7-A24	F61074-V8072-Z000		

Electrostatic Sensitive Device (ESD)

## **Maximum ratings**

Operable temperature range	$T_{A}$	-45/+85	°C	
Storage temperature range	$T_{\rm stg}$	-45/+85	°C	
DC voltage	$V_{\rm DC}$	12	V	between any terminals
Source power	$P_{s}$	0	dBm	-



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## Characteristics

Reference temperature:  $T_{\rm A}=25\,^{\circ}{\rm C}$ Terminating Source impedance:  $Z_{\rm S}=50\,\Omega$ Terminating Load impedance:  $Z_{\rm L}=50\,\Omega$ 

		min.	typ.	max.	
Center frequency	f <sub>C</sub>	417,920	418,000	418,080	MHz
(center frequency between 3 dB points)					
Minimum insertion attenuation	$\alpha_{min}$	_	7,5	10,0	dB
Phase at f <sub>c</sub>	φ	130	150	170	° el.
Loaded quality factor	$Q_L$	5000	6700	_	
Unloaded quality factor	$Q_U$	7000	11500	_	
Ageing of f <sub>c</sub>		_	_	±50	ppm
Equivalent circuit elements					
Motional capacitance	$C_1$	_	0,2	_	fF
Motional inductance	$L_1$	_	0,6	_	μΗ
Motional resistance	$R_1$	_	140	_	Ω
Input / Output capacitance	$C_0$	_	1,5	_	pF
Temperature coefficient of frequency 1)	$TC_{f}$	_	-0,03	_	ppm/K <sup>2</sup>
Turnover temperature	$T_0$	10	20	30	°C

<sup>&</sup>lt;sup>1)</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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