

**SAW Components
Resonator**

**R2630
418.05 MHz**

Preliminary Data

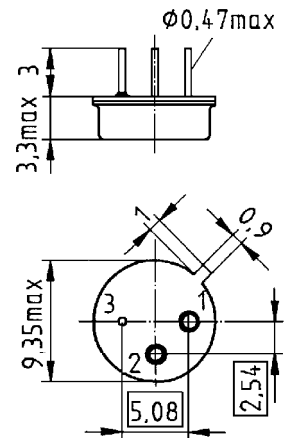
Features

- 2 - port resonator

Terminals

- NiFeCo, gold plated

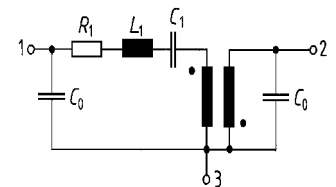
Metal package TO39



Dimensions in mm, approx. weight 1.0 g

Pin configuration

- 1 Input 1
- 2 Input 2
- 3 Ground



Type	Ordering code	Marking
R2630	B39421-R2630-B110	Type, date code

Maximum ratings

Ambient temperature	T_A	-45/+85	°C	-
Storage temperature	T_{stg}	-45/+85	°C	-
DC voltage	V_{DC}	0	V	between any terminals
AC voltage	V_{pp}	12	V	between any terminals
Power dissipation	P_{max}	0	dBm	

Electrostatic Sensitive Device (ESD)



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Characteristics**

Ambient temperature $T_A = 25\text{ }^\circ\text{C}$
 Source impedance $Z_S = 50\ \Omega$
 Load impedance $Z_L = 50\ \Omega$

		min.	typ.	max.	
Center frequency (center between 3 dB points)	f_C	417.970	418.050	418.130	MHz
Insertion attenuation at f_C	α	-	8.3	10.0	dB
Phase at f_C	φ	-	150	-	°el.
Loaded quality factor ¹⁾	Q_L	5000	7400	-	
Unloaded quality factor	Q_U	7000	12000	-	
Ageing of f_C		-	-	50	ppm
Equivalent circuit elements					
Motional capacitance	C_1	-	0.2	-	fF
Motional inductance	L_1	-	0.7	-	μH
Motional resistance	R_1	-	160	-	Ω
Parallel capacitance	C_0	-	2.0	-	pF
Temperature coefficient of frequency ²⁾	TC_f	-	-0.03	-	ppm/K ²
Frequency inversion point	T_0	-	25	-	°C

1) Loaded quality factor: $Q_L = Q_U (1 - 10^{-\alpha/20})$

2) Temperature dependence of f_C : $f_C(T_A) = f_C(T_0)(1 + TC_f(T_A - T_0)^2)$