

# Data Sheet Preliminary

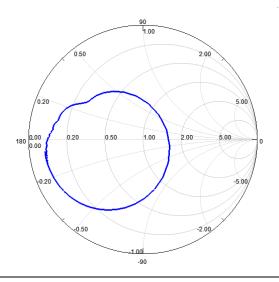
Product: SS2456BO2 Version: P1

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## SS2456BO2 Temperature Sensor (1-port Resonator)

This product is in compliance with RoHS 2011/65/EU.

### Typical performance: S11 @ 23°C



### **Test Conditions:**

RF power -10 dBm Temperature 25 °C DC Voltage 0 V Terminating source impedance (Zs): 50  $\Omega$ 

Terminating load impedance ( $Z_L$ ): 50  $\Omega$ 

		minimum	typical	maximum	unit
Nominal frequency *1	f <sub>n</sub>	2455	2456	2457	MHz
Insertion Loss	ΙL		14,2	17,1	dB
Unloaded quality factor	Qυ		4350		
Ageing @200°C		0,9	1,1	1,3	K/1000h
Equivalent Circuit elements					
Motional capacitance	C <sub>1</sub>		24,8		fF
Motional inductance	L <sub>1</sub>		170		nΗ
Motional resistance	R <sub>1</sub>		0,5		Ω
Parallel capacitance	C <sub>0</sub>		11		pF
Serial resistance	R <sub>0</sub>		3,8		Ω
Operating temperature range		0		200	°C
Temperature coefficient of frequency a b c c d e	TCF		-5E-7 -23E-6 -74,55E-3 -25,0 672,37		ppm/K <sup>4</sup> ppm/K <sup>3</sup> ppm/K <sup>2</sup> ppm/K

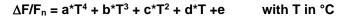
### Electrostatic Sensitive Device

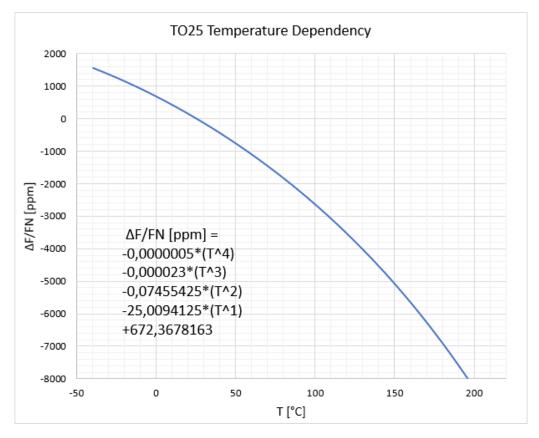
<sup>\*1</sup> Nominal frequency is defined as maximum impedance of s11.

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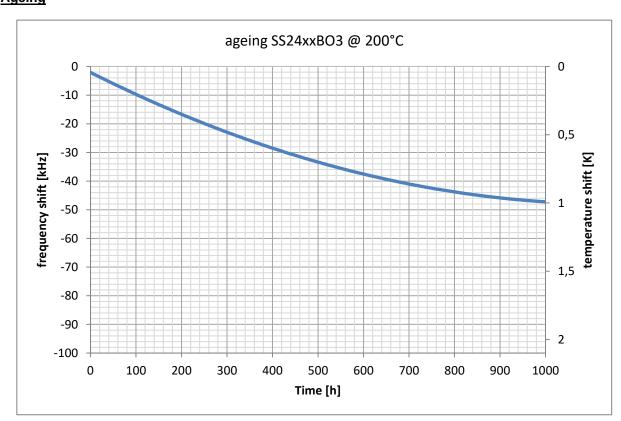
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### **Ageing**



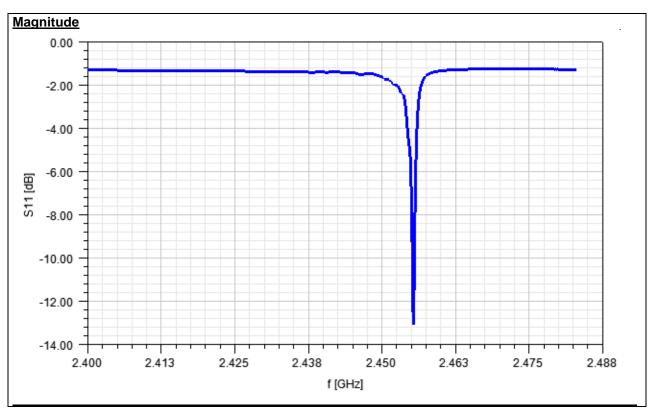


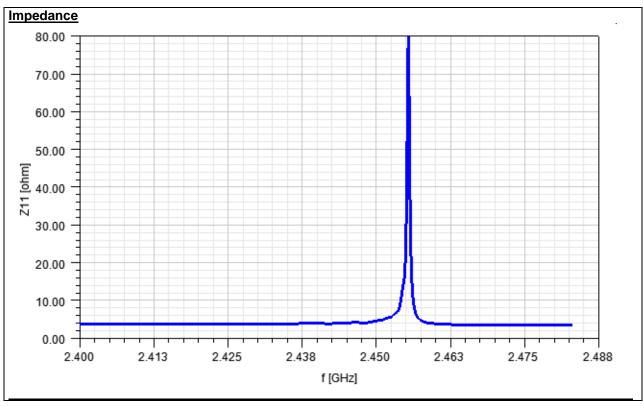
### SAW COMPONENTS Dresden GmbH

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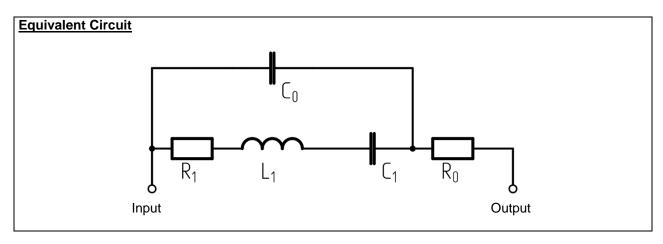


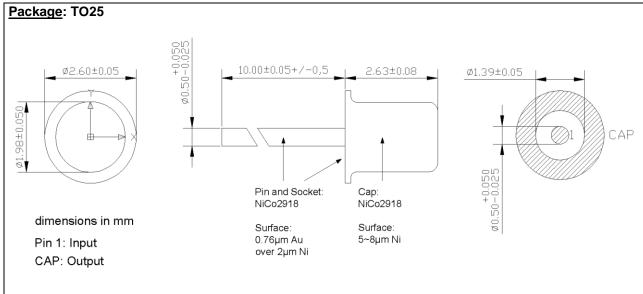
#### SAW COMPONENTS Dresden GmbH

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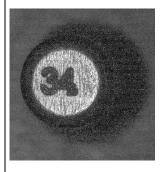




### **Marking**

The marking is located on the cap of the package: figures indicate last digits of the nominal resonance frequency in MHz, e.g. "44" in case of 2444 MHz.

Product ID, Lot Number, delivery date and other information is submitted on a label on transfer package.







SAW COMPONENTS Dresden GmbH

Produkt / Product: Bestellnr. / PO-no.:

Los / Lot:

Menge / Quantity: Datum / Date:

Sign.: