# EM characterization of conductive foils

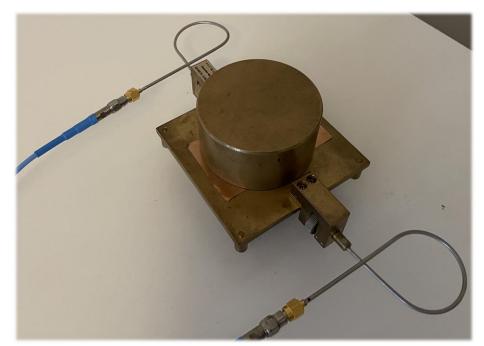
# **Sapphire Dielectric Resonator**







## Solution at 13.8 & 20.4 GHz



### **Measurements results**

Conductivity and sheet resistance @ 13.8 and 20.4 GHz

ode: ) ) Mode 1 [13.8 GHz] ) Mode 2 [20.4 GHz]	Measurement: Name: Foil_3		Measure	F [MHz]:	Sav	Save Results	
	Time Measurer	Time Inte STOP No. of m		Recalculate	Save Raw Data	Load Raw Data	
/alues Rs Conc	lucttivity Log				Dr	aw chosen graphs	
4.74534e+07	•				Fe		
<b>E</b> 3.99988e+07					F(	011_3	
(E 3.99988e+07 \$ 3.99988e+07 3.25442e+07 							
2.50896e+07							
1.7635e+07	1380	10 14	Frequency (MHz)	0 20400	22600		

#### Uncertainty analysis

Mode:	Measurement:				
O Mode 1 [13.8 GHz]	Name: Foil_3	Measure	F [MHz]:	Save Results Save Raw Data Load Raw Data	
O Mode 2 [20.4 GHz]	Time Measurements	Time Interval [sec]:			
	START STOP	No. of meas.:	Recalculate		
Values Rs Cor	ducttivity Log				
32.817					Draw chosen graphs
	ŧ				Foil_1
32.5526					Foil_2
	Ĭ				Foil_3
<u>۱</u> 32.2882	+				
32.2882 32.0238					
2 32.0238					
31.7594					
	•				
31.495	13800		20400	22600	
		Frequency (MHz)			

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