

**Позиции СМС по тангенсу угла диэлектрических потерь, обеспечиваемые лабораторией госэталонов в области измерений параметров электрических цепей (НИЛ 2202) ФГУП "ВНИИМ им. Д.И.Менделеева"**



Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty								
Quantity	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage Factor	Level of Confidence	Is the expanded uncertainty a relative one?	Matrix Uncertainty	Service provider	NMI Internal Service Identifier	Comments
Capacitance: dissipation factor for low loss capacitors	Fixed capacitor	Transformer bridge	1E-06	1E-04		Capacitance	1 pF to 100 pF	0.5E-06		2	95%	No		71	VNIIM	
						Frequency	1 kHz									
Capacitance: dissipation factor for low loss capacitors	Fixed capacitor	Transformer bridge	1E-05	1E-04		Capacitance	200 pF to 1 nF	5E-06		2	95%	No		72	VNIIM	
						Frequency	1 kHz									
Capacitance: dissipation factor for low loss capacitors	Fixed capacitor	Transformer bridge	1E-05	1E-03		Capacitance	1 pF to 1 nF	5E-05		2	95%	No		77	VNIIM	
						Frequency	1 MHz									
Capacitance: dissipation factor dielectric capacitors	Fixed capacitor	Transformer bridge	5E-05	1E-03		Capacitance	2 nF to 10 nF	1E-05		2	95%	No		73	VNIIM	
						Frequency	1 kHz									
Capacitance: dissipation factor dielectric capacitors	Fixed capacitor	Schering bridge	5E-05	1E-03		Capacitance	20 nF to 1 μF	3E-05		2	95%	No		74	VNIIM	
						Frequency	1 kHz									
Capacitance: dissipation factor dielectric capacitors	Fixed capacitor	Schering bridge	5E-05	1E-03		Capacitance	100 pF to 1 μF	2E-05		2	95%	No		75	VNIIM	
						Frequency	50 Hz, 10 kHz									

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Quantity	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage Factor	Level of Confidence	Is the expanded uncertainty a relative one?	Matrix Uncertainty				
Capacitance: dissipation factor dielectric capacitors	Fixed capacitor	Schering bridge	5E-05	1E-03		Capacitance	10 pF to 10 nF	3E-05		2	95%	No		76	VNIIM		
						Frequency	100 kHz										
Dielectric properties: dielectric loss tangent: tand	Solid materials	Transformer bridge	1E-05	1E-03		Capacitance	1 pF to 100 pF	1E-05		2	95%	No		425	VNIIM		
						Frequency	1 kHz to 1 MHz										