Item Number:
MC-11_1.1

Praesto, April 30, 2018 – Rev. 02

Description: Mini Compression Connector with 1.1mm movable pin.
(Measured with Coax 18 Cable)

DATA SHEET

Electrical

	Specification			Standard
Frequency Range	**5 MHz – 3.000 MHz**			
Impedance	**75 Ω nominal**			
	Better Than	**Measured** – Worst case of 5 measurements		
Return Loss of Assembly	35 dB	≥ 38.4 dB	5 MHz – 500 MHz	IEC 61169-1
	35 dB	≥ 42.8 dB	500 MHz – 860 MHz	
	33 dB	≥ 36.3 dB	860 MHz – 1.000 MHz	
	22 dB	≥ 25.2 dB	1.000 MHz – 1.750 MHz	
	19 dB	≥ 22.1 dB	1.750 MHz – 2.150 MHz	
	13 dB	≥ 16.3 dB	2.150 MHz – 3.000 MHz	
		41.3 dB	1218 MHz	
Return Loss Gated of connector	42 dB	≥ 45.1 dB	5 MHz – 500 MHz	IEC 61169-1
	42 dB	≥ 46.3 dB	500 MHz – 860 MHz	
	39 dB	≥ 42.4 dB	860 MHz – 1.000 MHz	
	28 dB	≥ 31.1 dB	1.000 MHz – 1.750 MHz	
	24 dB	≥ 27.0 dB	1.750 MHz – 2.150 MHz	
	18 dB	≥ 21.6 dB	2.150 MHz – 3.000 MHz	
			1218 MHz	
Insertion Loss of Assembly	0.24 dB	≤ 0.21 dB	5 MHz – 500 MHz	
	0.30 dB	≤ 0.27 dB	500 MHz – 860 MHz	
	0.32 dB	≤ 0.29 dB	860 MHz – 1.000 MHz	
	0.42 dB	≤ 0.39 dB	1.000 MHz – 1.750 MHz	
	0.46 dB	≤ 0.43 dB	1.750 MHz – 2.150 MHz	
	0.56 dB	≤ 0.53 dB	2.150 MHz – 3.000 MHz	
		0.32 dB	1218 MHz	
Shielding Effectiveness (Measured with CoMeT) MC-11_1.1 with 1cm cable.	Transfer Impedance @ 5 – 30 MHz ≤ 0.13mΩ/item Screening Attenuation @ 30 – 1.000 MHz ≥ 123.2 dB Screening Attenuation @ 1.000 – 2.000 MHz ≥ 128.3 dB Screening Attenuation @ 2.000 – 3.000 MHz ≥ 129.1 dB Class: A++			IEC 62153-4-3 IEC 62153-4-4 IEC 62153-4-4 IEC 62153-4-4 EN 50117
Common Path Distortion	≤ -110 dBc			ANSI/SCTE 109 2005
Dielectric Strength	≥ 2 KV.			IEC 61169-1
Insulation Resistance	≥ 29.99 MΩ @ 500 V.			IEC 61169-1

Environmental

	Specification	Standard
Temperature range Operating	-40°C to +85°C	
Temperature range Installation	-5°C to +50°C	
Corrosion Protection		ASTM B 117-94

Mechanical

	Specification	Standard
Interface	F male	IEC 61169-24
Cable Retention	≥ 21 kgf	ANSI/SCTE 99
Approved compression tool	VT-150DK Rev 2, VT-300, CT2-AS-EX & EX59/6CAT.	

Material and Finish

	Specification	Standard
Housing	NiSn (NITIN) plated Brass	ASTM B605
Inner conductor	NiSn (NITIN) plated Brass, with spring contact.	ASTM B605
Insulator	Kepital	

Measurement setup:

MC-11_1.1 – Cable – **MC-11_1.1**.

All measurements are done with 0.5 m. Coax 18 cable.

All results are the worst case result of measurement of 5 assemblies.

All tests are performed using instruments calibrated in accordance to our ISO 9001 certification.

Return Loss and Insertion Loss measured with Rohde & Schwarz ZNB8 Network Analyzer, according to IEC standards, with 2 connectors mounted on 1 meter cable.

Shielding are measured with Rohde & Schwarz ZNB8 Network Analyzer, according to IEC standards, with 1 connector mounted on 2 cm cable.

CPD (Common Path Distortion) are measured with Rohde & Schwarz FPC1000, according to SCTE standard.
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In case of over current (≥ 4 A.) there is a risk for high temperature inside the connector, which can cause damage of the insulator, and / or the cable.

Further test reports, technical specifications and installation instructions can be obtained on request.