


**Product Data Sheet / Produkt Datenblatt**

<b>Part Number</b>	<b>5648.MCA.1X20.007</b>	<b>Teilenummer</b>
<b>Description</b>	<b>MCA(m)-Anbauwinkelstecker-1-pol  MCA(m)-p.c.b.mount angle plug-1-pol</b>  View coding "Z" 	<b>Beschreibung</b>
<b>Design according to</b>		<b>Ausführung nach</b>

**Electrical characteristics / Elektrische Eigenschaften**

		colored value means: under validation			
		Value/Wert	Unit/ Einheit		
Impedance (MIL-C-39012B)		50 ±10	[Ω]	Impedanz (MIL-C-39012B)	
Operating frequency up to		20	[GHz]	Betriebsfrequenz bis zu	
Return loss*				Rückflussdämpfung*	
	DC - 3 GHz	≥ 30	[dB]		
	3 - 6 GHz	≥ 17	[dB]		
	6 - 9 GHz	≥ 13	[dB]		
Insertion Loss		≤ 0,1*√f (GHz)	[dB]	Einfügedämpfung	
Cross Talk*	DC - 3 GHz	NA	[dB]	Nebensprechen*	
	3 - 6 GHz	NA	[dB]		
	6 - 9 GHz	NA	[dB]		
Shielding Effectiveness	DC - 3 GHz	≥ 60	[dB]	Schirmungseffizienz	
	3 - 6 GHz	≥ 55	[dB]		
	6 - 9 GHz	≥ 50	[dB]		
Insulation resistance		≥ 1	[GΩ]	Isolationswiderstand	
Contact resistance				Kontakt-Widerstand	
Centre contact		≤ 15	[mΩ]	Innenkontakt	
Outer contact		≤ 7,5	[mΩ]	Außenkontakt	
Contact current max. (DC)		3	[A] DC	Kontakt-Strombelastbarkeit max (DC)	
Operating voltage		≤ 60	[V] DC	Betriebsspannung	
Proof voltage		500	[Vms]	Prüfspannung	

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**Mechanical characteristics / Mechanische Eigenschaften**

	Value/ Wert	Unit/ Einheit	
Engagement force	≤ 30	[N]	Steckkraft
Separating force	≤ 25	[N]	Ziehkraft
Mating cycles	≥ 25	[-]	Steckzyklen
Retention force locked system	≥ 120	[N]	Haltekraft Steckerverriegelung
Side load	25	[N]	Schrägzug
Weight per piece	3,5	[g]	Gewicht pro Stück

**Material & plating / Material & Oberfläche**

	Material/Material	Plating/Oberflächen	
Outer contact	Brass	Sn	Außenkontakt
Centre contact	Brass / Bronze	Ag	Innenkontakt
Plastic housing	PPA / PA-GF	-	Kunststoffgehäuse
Other metal parts	GD-Zn	Sn	sonstige Metallteile
Insulator	LCP	-	Isolator

**Environmental influences\*\***

**Umwelteinflüsse\*\***

Temperature range	-40°C < T < +105°C	Temperaturbereich
Mechanical shock	IEC 60068-2-27	Mechanischer Schock
Vibration	IEC 60068-2-64 Severity 1	Vibration
Thermal change	IEC 60068-2-14	Temperaturwechsel
Damp heat, cyclic	IEC 60068-2-30	Feuchte Wärme, zyklisch
Dry heat	IEC 60068-2-2 (+105°C)	Trockene Wärme
RoHS	compliant	RoHS
Solder profile	Jedec 020 D (Tp max. 260°C)	Lötprofil

**Notes**

**Aufzeichnungen**

\* Connector performance strongly depends on PCB type and layout  
 \*\* meets LAH.4N0.035.K-Ver.2

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While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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Revision e

Date/Approved: