

IMS Product Specification/ Product Data Sheet

Part Number	7716.NEX.2014.205	Teilenummer
Description	NEX10 bulkhead jack	Beschreibung
		
Design according to	NEX10	Ausführung nach

Electrical characteristics / Elektrische Eigenschaften

		colored value means: under validation			
		Value/Wert	Unit/ Einheit		
Impedance (MIL-C-39012B)		50	[Ω]		Impedanz (MIL-C-39012B)
Operating frequency up to		...20GHz	[GHz]		Betriebsfrequenz bis zu
Return loss					Rückflussdämpfung
	@ DC to 4 GHz	≥36	[dB]		
	@ 4 to 6 GHz	≥34	[dB]		
	@ 6 to 12 GHz	≥30	[dB]		
	@ 12 to 20 GHz	≥20	[dB]		
Insertion loss		≤0.05 x √f[GHz]	[dB]		
3rd. Order PIM product 2x43dBm	at 1870MHz	≥166	[dBc]		PIM Produkt 3. Ordnung
Insulation resistance		≥5	[GΩ]		Isolationswiderstand
Contact resistance					Kontakt-Widerstand
Centre contact		≤1.5	[mΩ]		Innenkontakt
Outer contact		≤1.0	[mΩ]		Außenkontakt
Power handling	at 2GHz and 85°C	100	[W] DC		Belastbarkeit
	at 2GHz and 105°C	50	[W] DC		
Voltage rating	max.	500	[V] eff		Prüfspannung
Dielectric withstanding voltage	min.	1500	[V] eff		
Surge current	±1KA 10/350 μs pulse and ±5 KA 8/20 μs pulse ±5KA 10/350 μs pulse and ±20KA 8/20 μs pulse				

Mechanical characteristics / Mechanische Eigenschaften

		Value/ Wert	Unit/ Einheit	
Mating cycles		≥100		Steckzyklen
Center contact retention				
Axial force-mating end		≥27	[N]	
Axial force-opposite end		≥27	[N]	
Recommended torque		1.5	[Nm]	Empfohlenes Anzugsmoment
Recommended torque (panel nut)		8	[Nm]	Empfohlenes Anzugsmoment
Water resistance	Interface only (mated pair)	IP68 24h/1m		Wasserbeständigkeit nur Steckbereich (gesteckter Zustand)

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Material & plating / Material & Oberfläche

RoHS (2011/65/EU) conform			
	Material/Material	Plating/Oberflächen	
Outer contact	Brass	Cu + 2-4µm CuZnSn	Außenkontakt
Centre contact	Copper beryllium	Cu + 3-5µm Ag	Innenkontakt
Crimp ferrule	-		Crimphülse
Other metal parts	-		sonstige Metallteile
Insulator	PTFE		Isolator
Gasket	-		Dichtung

Environmental influences

Umwelteinflüsse

Operating temperature range	-55°C up to +125°C	Betriebstemperaturbereich
Thermal shock	IEC 61169-1 9.4.4.	Wärme Schock
Vibration	IEC 61169-1 9.3.3 and IEC 60068-2-64	Vibration
Shock	IEC 61169-1 9.3.14	Schock
RoHS	compliant	
Solder profile		Lötprofil

Notes

Aufzeichnungen

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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