

Product Data Sheet / Produkt Datenblatt

Part Number	7844.NEX.1410.085	Teilenummer
Description	NEX10(m)-Cable mount plug	Beschreibung
		
Design according to	RT-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		...20	[GHz]	Betriebsfrequenz bis zu
Return loss				Rückflusdämpfung
(Return loss depends primary on p.c.b material + layout)	@ DC to 4 GHz	≥26	[dB]	(Rückflusdämpfung hängt primar von Leiterplattenmaterial und Layout ab.)
	@ 4 to 6 GHz	≥23	[dB]	
	@ 6 to 10 GHz	≥20	[dB]	
	@ 10 to 20 GHz	≥15	[dB]	
Insertion loss		≤0.05 x √f[GHz]	[dB]	
RF-leakage	@ DC to 6 GHz	≥110	[dB]	
3rd. Order PIM product 2x43dBm	at 910MHz/at 1870MHz	≥165	[dB]	
Insulation resistance		≥5	[GΩ]	Isolationswiderstand
Contact resistance				Kontakt-Widerstand
Centre contact		≤ 1.5	[mΩ]	Innenkontakt
Outer contact		≤ 1,5	[mΩ]	Außenkontakt
Power handling	at 2GHz and 85°C	100	[W] DC	Belastbarkeit
	at 2GHz and 105°C	50	[W] DC	
Operating voltage	max.	500	[V] eff	Betriebsspannung
Proof voltage	min.	1500	[V] eff	Prüfspannung

Mechanical characteristics / Mechanische Eigenschaften

		Value/ Wert	Unit/Einheit	
Retention force of coupling mecha.		> 500	[N]	Haltekraft für Kupplungsmechanismus
Recommended torque		1.5	[Nm]	Empfohlenes Anzugsmoment
Mating cycles		≥100		Steckzyklen
Water resistance	(mated pair)	IP68 24h/1m		Wasserbeständigkeit (gestecktes Paar)

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Material & plating / Material & Oberfläche

	RoHS (2002/95/EC) conform		
	Material/Material	Plating/Oberflächen	
Outer contact	Copper beryllium	Cu + 3-6µm Ag	Ausenleiter
Centre contact	Brass	Cu + 3-6µm Ag	Innenkontakt
Housing	Brass	Cu + 2-4µm CuZnSn	Gehäuse
Nut	Brass	Cu + 2-4µm CuZnSn	Mutter
Spring ring	Stainless steel	-	Federring
Insulator	PTFE	-	Isolator
Gasket	Silicone/Silikon	-	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 I EC 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.

Update History

Rev.	Date	Signature	Alteration	Approved
				Formblatt-Nr.: Form-TK-013ab
				Rev.
				Released