

Product Data Sheet / Produkt Datenblatt

Part Number	5401.VIA.2010.003	Teilenummer
Description	VIA(f)-Anbaubuchse VIA(f)-p.c.b. mount jack	Beschreibung
		
Design according to	Rosenberger B2B-VIA	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		...6	[GHz]	Betriebsfrequenz bis zu
Return loss *				Rückflussdämpfung
	DC to 2.5 GHz	36	[dB] typ.	
	2.5 to 4 GHz	35	[dB] typ.	
	4 to 6 GHz	32	[dB] typ.	
Insertion loss		$\leq 0.1 \times \sqrt{f(\text{GHz})}$	[dB]	Einfügedämpfung
Insulation resistance		≥ 5	[GΩ]	Isolationswiderstand
Centre contact resistance		≤ 6	[mΩ]	Innenkontakt Widerstand
Outer contact resistance		≤ 5	[mΩ]	Außenkontakt Widerstand
Proof voltage (at sea level)		500	[V] rms	Prüfspannung (Meereshöhe)
Operating voltage (at sea level)		335	[V] rms	Betriebsspannung (Meereshöhe)
Power handling (sea level, VSWR 1.0)	@ 2.2 GHz (at 20°C)	100	[W]	Nennbelastbarkeit (Meereshöhe, VSWR 1.0)
Contact current		≤ 2	[A] DC	Kontakt-Strombelastbarkeit
Screening Attenuation	up to 6 GHz	≤ 70	[dB]	Schirmdämpfung
- Connector only, VSWR in application depends decisive on PCB layout- * only interface, depending on the axial misalignment			- Nur Steckverbinder, VSWR ist in Abhängigkeit von PCB Layout - * Nur Steckbereich, abhängig von dem axialen Toleranzausgleich	

Mechanical characteristics / Mechanische Eigenschaften

		Value/ Wert	Unit/Einheit	
Mating cycles		≥ 100		Steckzyklen
Center contact captivation		≥ 7	[N]	Innenkontakt Arretierung
Engagement force (with adapter)	Limited detent	typ. 20	[N]	Steckkraft (mit Adapter)
	Smooth bore	typ. 12	[N]	
Disengagement force (with adapter)	Limited detent	min. 15	[N]	Ziehkraft (mit Adapter)
	Smooth bore	min. 5	[N]	
Working range		2 (±1)	[mm]	Arbeitsbereich
Radial misalignment		$\pm 0,6\text{mm} / 4^\circ$		Radialer Toleranzausgleich
Pitch		$\geq 6,5$	[mm]	Abstand

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Material & plating / Material & Oberfläche

RoHS (2011/65/EU) conform			
	Material/Material	Plating/Oberflächen	
Outer contact	CuBe	Ni-P + 0,15µm Au	Außenkontakt
Centre contact	CuBe	Ni-P + 0,15µm Au	Innenkontakt
Plastic housing	PA		Kunststoffgehäuse
Insulator	LCP		Isolierung
		-	

Environmental influences / Umwelteinflüsse

Temperature range	-55°C up to +125°C	Temperaturbereich
Thermal shock	MIL-STD-202, Method 107, Cond. B	Temperaturschock
Climatic category	IEC 61169-1, Sub-clause 9.4.5 (+155°C, 250 hours)	Klimakategorie
Moisture	MIL-STD-202, Method 106	Feuchtigkeit
Vibration	MIL-STD-202, Method 204, Cond. B	Vibration
Shock	MIL-STD-202, Method 213, Cond. A	Schock
Max. soldering temperature	IEC 61760-1, +260°C for 10 sec.	max. Löttemperatur

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
-	10.11.2016	R. Schwär	Generated	
a	11.01.2018	R. Schwär	Revised	