

Product Data Sheet / Produkt Datenblatt

Part Number	4546.99.0030.003	Teilenummer
Description	SMT-Schalter SMT-Switch	Beschreibung
		
Design according to		Ausführung nach

Electrical characteristics / Elektrische Eigenschaften

		colored value means: under validation		counter part: K-2571-01 // K-2602-01/-02 K-2641-01	
		Value/Wert		Unit/ Einheit	Remarks: Attention electrical values strongly depending on layout. Reference-pcb: AGK-4001
Impedance (MIL-C-39012B)		50		[Ω]	
Operating frequency up to		4		[GHz]	Betriebsfrequenz bis zu
Return loss <small>measured with cable typ.</small>		unswitched	switched		gem. mit Kabel Typ: Rückflusdämpfung
	1 GHz	< 30	< 24	[dB]	
	2 GHz	< 27	< 20	[dB]	
	3 GHz	< 27	< 18	[dB]	
	4 GHz	< 27	< 18	[dB]	
Insertion loss					Einfügedämpfung
	1 GHz	< 0,1	< 0,15	[dB]	
	2 GHz	< 0,13	< 0,20	[dB]	
	3 GHz	< 0,18	< 0,25	[dB]	
Isolation					Isolierung
	1 GHz	n/a	> 36	[dB]	
	2 GHz	n/a	> 30	[dB]	
	3 GHz	n/a	> 27	[dB]	
Contact resistance					Kontakt-Widerstand
	Centre contact	< 80	< 80	[mΩ]	
	Outer contact	< 50	< 50	[mΩ]	
	Insulation resistance - initial >0,50 [GΩ]	after SMT-process / conditioning	> 1		
Rated voltage		150		[V] DC	Nennspannung
Proof voltage		500		[V] eff	Prüfspannung

Mechanical characteristics / Mechanische Eigenschaften

		Value/ Wert	Unit/ Einheit	
Engagement force	after soldering process	m10	[N]	Steckkraft
Mating cycles	with 4449.93.8914.1 "	~ 20000		Steckzyklen
Water resistance		IP67		Wasserbeständigkeit

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Material & plating / Material & Oberfläche

	Material/Material	Plating/Oberflächen	
Outer contact	Brass	Ni + 0,2µm Au	Außenkontakt
Centre contact	Bronze	Ni + 0,2µm Au	Innenkontakt
Spring	Copper berylium	Ni + 0,5µm Au	Feder
Insulator	PPA		Isolator
Insulator	PEEK		Isolator
Seal	Silicone/Silikon		Dichtring

Environmental influences

Umwelteinflüsse

Temperature range	-40°C up to +85°C	Temperaturbereich
Vibration	MIL-STD-202 Meth. 204, cond.B	Vibration
Corrosion resistance	MIL-STD-202 Meth. 101, cond.C	Korrosionsbeständigkeit
Climatic categorie	IEC 60068 40/85/21	Klimakategorie
Shock	MIL-STD-202 Meth. 213, cond. G	Schock
Max. soldering temp. (PCB connectors)	IEC 61760-1, +260°C for 10 sec.	Max. Löttemp. (Leiterplattenanschlüsse)
RoHS	compliant	RoHS
Solder profile		Lötprofil

Notes

Aufzeichnungen

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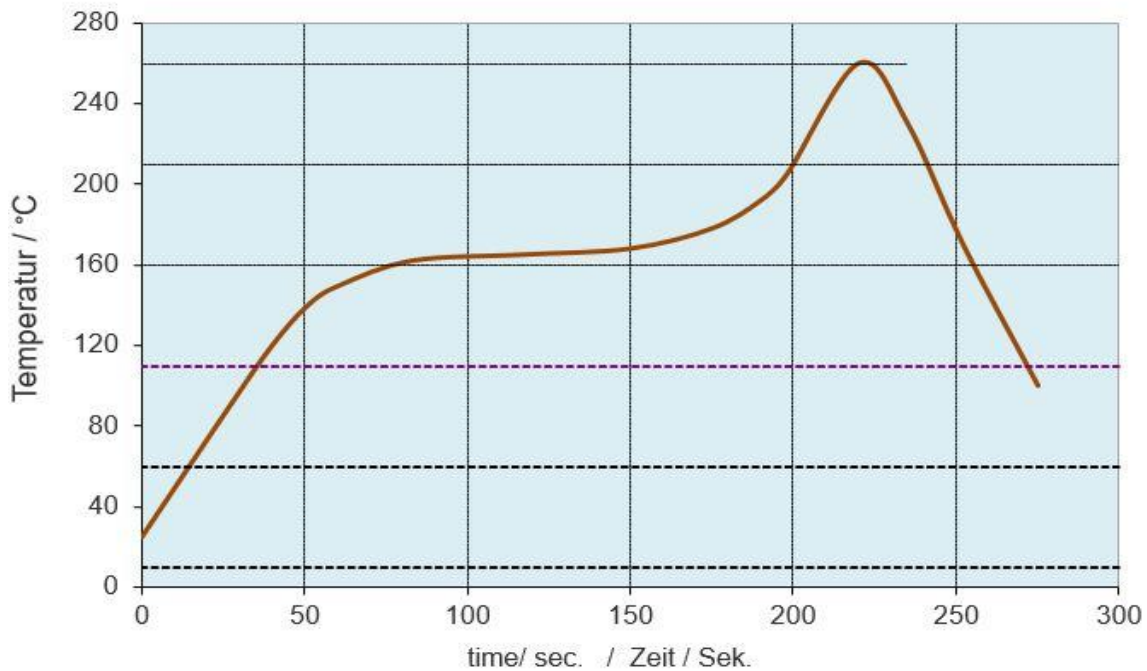
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Soldering process / Lötprozess

Soldering methode / Lötmethode: THR / Reflow

**Recommended reflow soldering profil /
 Empfohlenes reflow Lötprofil:**

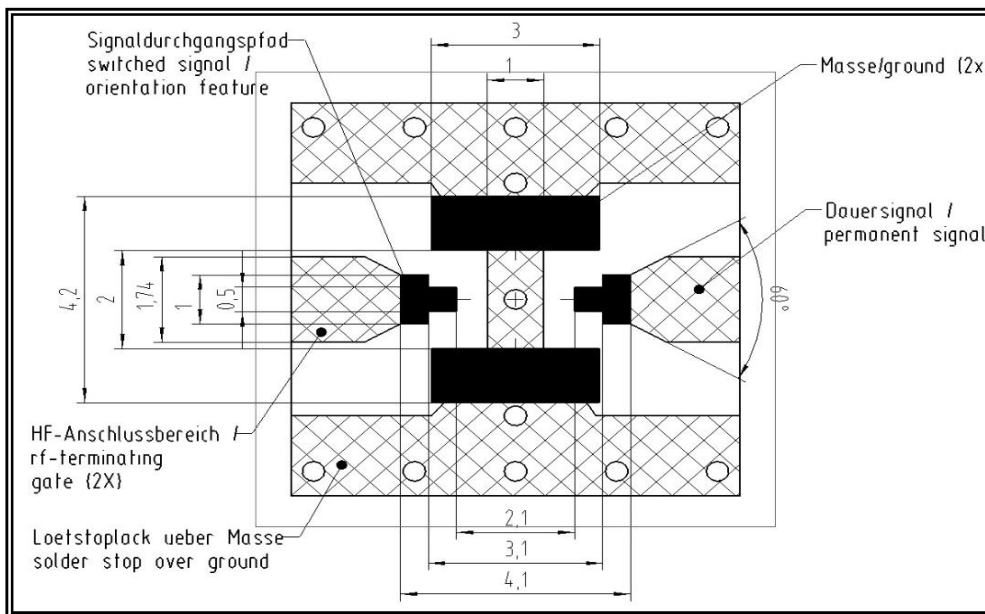
Parameter	Reference	Specification
Max. Temperature (lead free soldering) Max. Temperatur (bleifreies Löten)	C°	260



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PCB -Layout



Standard pattern dimensions

Please design I/O pattern so that the impedance match 50 Ohm including the land pattern.
 The material of PCB is the epoxy resin of grass fabric base. ($\epsilon_p = 4.8$). Thickness is 1.0 mm.
 The solder resist should be printed except for the land pattern on the PCB.

The standard solder cream metal mask drawing (Mask thickness 0,15 mm)

