


	Formblatt-Nr.	Data Sheet Mobile	Rev. : a
	Form-TK-013b		Updated:12.11.2002
Description		Part Number	Picture
<div style="background-color: #00FF00; padding: 2px; display: inline-block;">colored value means</div> still under test; target value		3384.99.0000.008 SMT Plug	



<u>ELECTRICAL CHARACTERISTICS</u>		Unit
Impedance (MIL-C-39012B)	50	[Ω]
Operating frequency	up to 2	[GHz]
Isolation	23	[dB]
Return loss:		
1 GHz	>23	[dB]
2 GHz	> 17	[dB]
Insertion loss		
1 GHz	<0,2	[dB]
2 GHz	<0,4	[dB]
Measured with Switch 2421.99.0000.00'		
Contact resistance		[mΩ]
Center contact	50	[mΩ]
Outer contact	10	
Insulation resistance	5000	[MΩ]
Operating voltage	100	[V]
Proof voltage	500	[V]

<u>MECHANICAL CHARACTERISTICS</u>			
	value	Unit	Remarks
Engagement force	Max. 9	[N]	During the whole lifetime including up to 50 mating cycles all the stated criteria have to be met.
Separating force	Max. 8	[N]	
Mating cycles	50	-	
Lifetime	6	(Years)	

<u>MATERIAL & PLATING</u>		
	Material	Plating
Housing	CuZn	2µm Optalloy
Insulator	PTFE	
Centre contact	CuZn	0,4 µm Au over 2 µm Ni
Spring basket	PS2	2 µm Pallatronic S

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Description <div style="display: flex; align-items: center;"> <div style="background-color: yellow; padding: 2px; margin-right: 5px;"> colored value means </div> <div> still under test; target value </div> </div>	Part Number 3384.99.0000.008 SMT Plug	Picture 	

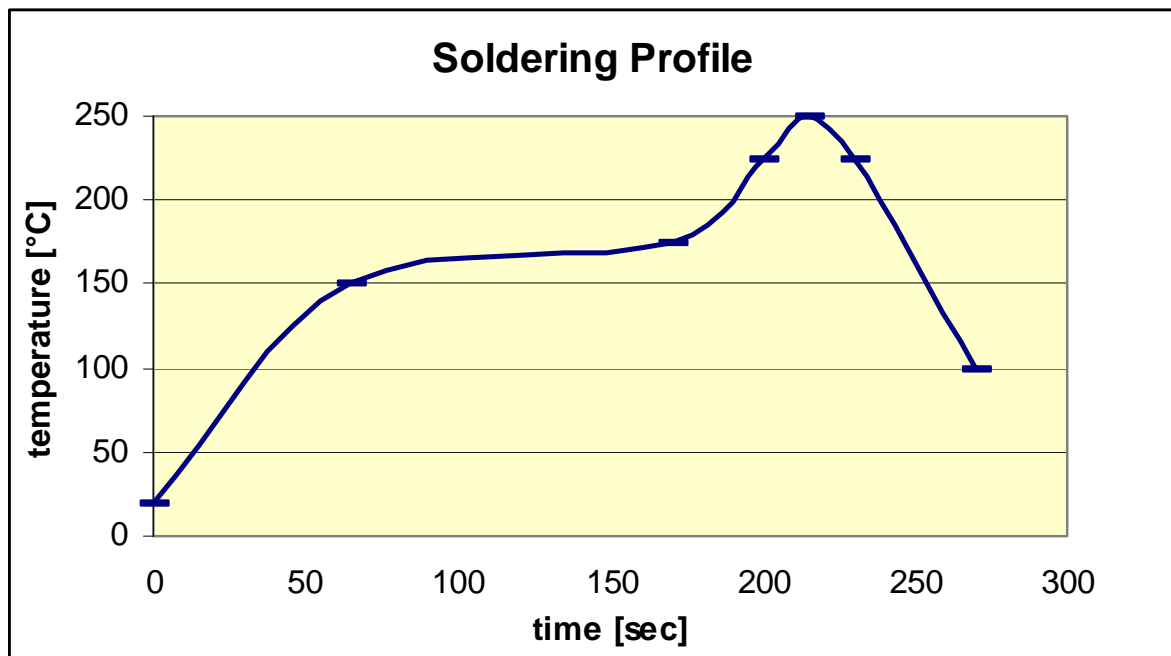
<u>ENVIRONMENTAL</u>	Standard	Remarks
1.Cold Temperature (operational)	IEC 68-2-1-Ab	-30°C / 72h
2. Dry heat (operational)	IEC 68-2-2-Bb	85°C/72h
3.Gradual change of temperature (operational)	IEC 68-2-14 Nb	2h at -30°C,2h at +85°C, 1K/min. temperature change velocity
4. Temperature shock	IEC 68-2-14 Na	-40°C/+125°C, duration 15/15min. change time <30 sec., 1000 cycles.
5.Damp heat cyclic	IEC 68-2-30 Db	97%RH at 25°C and 93% at 55°C Duration: 12+12 hours,21 cycles, total 21 days
6.Salt mist (no operation)	IEC 68-2.52 Kb	5% by weight NaCl solution,35°C (2hours spray) 95%RH at 40°C (7 days storage),
7.Temperature / humidity cyclic	IEC 68-2-38 Z/AD	-10°C/65°C 90→95% 5cycles 5days
8.Vibration sinusoidal (operating)	IEC 68-2-6 Fc	5-15Hz, 10mm peak to peak, 15-25Hz, 4,5G 25-100Hz 2g 100-200Hz 0,5g 6hrs/axis
9.Vibration random (operating)	IEC 68-2-64 Fdb	10Hz-7m ² /s ³ dB/octave, 50Hz-3,5m ² /s ³ 60Hz-1,75m ² /s ³ 1000Hz-0,06m ² /s ³ combined with gradual change of temperature according 3. Gradual change of temperature 8 hrs / axis
10.Bump	IEC 68-2-29 Eb	half sine; 25g/6ms duration : 1000x6 bumps
11.Shock (non operational)	IEC 68-2-27 Ea	half sine, 100g/6ms duration :3x6 shocks

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SMD-solderability

Recommended reflow soldering profile.

Max. temperature 250°C (lead free soldering)



Additional heat treatments

In addition to 2 times reflow soldering profile components must tolerate min. 5 minutes at 150°+/-10°C.

Manual hot gas soldering for rework

Max air temperature	+270°C
Max air velocity	10m/s
Max exposure time	30s