				Perammended configuration of	plated through bolos for proces in	termination		-
MARTING DIN SI	anal famala connect	<b>○</b> □	c STUs Rots Ry	Recommended configuration of plated through holes for press-in termination				
DIN 21	gnal female connect	UI	c <b>713</b> Us (1056)	In addition to the hot-air-level (HAL), o to their different properties - such as we recommend the following configuration	ther PCB surfaces are getting more important mechanical strength and coefficient of friction on of PCB through holes.	. Due Tin plated PCB (HAL) acc. to EN 60352-5	Drilled hole Ø	1,15±0,025 mm max. 15 μm
General information				-			plated hole Ø  Drilled hole Ø	0,94 - 1,09 mm 1,15±0,025 mm
defici de information				drilled hole of	<del>' -   -</del>	Chemical tin plated PCB	Sn Sn	min. 0,8µm
Design No. of contacts	IEC 60603-2 types: B, 2B, 3B, C, 2C, 3C, M max. 96	I female		-   -	<u>Си min. 25 µm</u>		plated hole Ø Drilled hole Ø	1,00 - 1,10 mm 1,15±0,025 mm
Contact spacing	2,54 mm					Gold /Nickel plated PCB	Ni	3 - 7 µm
Test voltage Contact resistance	1000V max. 20m0hm			-			Au plated hole Ø	0,05 - 0,12 μm 1,00 - 1,10 mm
Insulation resistance	min. 10½0hm			-			Drilled hole Ø	1,15±0,025 mm
Working current	2A at 20°C (see derating diagram) 40 A for	r type M		-   -   finished hol	, d	Silver plated PCB	Ag	0,1 - 0,3 µm
Temperature range	-55°C +125°C				<del>- ' =                                   </del>		plated hole Ø	1,00 - 1,10 mm
	-40°C +105°C (for press-in connector	rs)		-   plati	ng (e.g. Sn)	Copper plated PCB (OSP)	Drilled hole Ø	1,15±0,025 mm 1.00 – 1.10 mm
Termination technology Clearance & creepage distance	press-in, solder pins min. 1,2 mm each			·		. 25 (66) /	אנטובט ווטנפ צי	1,00 - 1,10 11111
Insertion and withdrawal force	16-pole max. 15N 20-pole max. 20N	30-pole max. 30N	32-pole max. 30N	·				
miser non and willingwar 101.66	48-pole max. 45N 64-pole max. 60N	96-pole max. 90N						
Mating cycles	PL 1 acc. to IEC 60603-2 PL 2 acc. to IEC 60603-2	500 mating cycles 400 mating cycles		Assembly instructions				<u>:</u>
Training Cycles	PL 2 acc. to IEC 60603-2	50 mating cycles		It is highly recommended to use HA information about the press-in pro	ARTING press-in tools to ensure a reliab	le press-in process. Please refe	er to the catalogue for to	ols, machines and furthe
UL file	E102079			_	reess.			:
RoHS - compliant	Yes			Soldering instructions				-
Leadfree Hot plugging	Yes No	-		-				
ior progging	INU				n being soldered in a dip, flow or film soldering	baths. Otherwise, they might become c	contaminated as a result of sol	dering operations or deforme
				as a result of overheating.		-		
Insulator material				(1) For prototypes and short runs protect	t the connectors with an industrial adhesive tag	e, e.g. Tesaband 4331 (www.tesa.de).	This will assure best of	on of the sald-size
Material	PBT (thermoplastics, glass fiber reinforcement 30)	%)		Lover the underside of the connector mointenance of the connector. About 140 -	ulding and the adjacent parts of the pcb as wel + 5 mm of the tape should suffice.	as the open sides of the connector.	inis will prevent heat and gasi	es or the soldering apparatu
Color	RAL 7032 (grey)	701	· · · · · · · · · · · · · · · · · · ·	-	Its protective cover with a fast action mechani	cal locking device shields the connecto	ors from mas and heat memerate	d by the soldering apparatus
UL classification	UL 94-V0				used for covering the parts that should not be		gas and near generale	/ 2000cmg apparatu.
Material group acc. IEC 60664-1	IIIa (175 < CTI < 400)			.				
NFF classification	13, F4			.				
				Cross section of solder termin	nations			
Contact material	-							
				-				
· ·	Copper alloy			-				
Contact material				_ 1				
Plating termination zone	Sn over Ni for solder, Ni for press-in	1			^ 75			
Plating termination zone Plating contact zone I				_ - - 1 1 <del>  </del>	0,75 <sub>-0,07</sub>			
Plating termination zone Plating contact zone I	Sn over Ni for solder, Ni for press-in Au over PdNi over Ni (Au over Ni for PL3)			-   -	0,75 <sub>-0,07</sub>			
Plating termination zone Plating contact zone I Plating contact zone II (termination side)	Sn over Ni for solder, Ni for press-in Au over PdNi over Ni (Au over Ni for PL3) Au over Ni				0,75 <sub>-0,07</sub>			
Plating termination zone Plating contact zone I Plating contact zone II (termination side)	Sn over Ni for solder, Ni for press-in Au over PdNi over Ni (Au over Ni for PL3) Au over Ni							
Plating termination zone Plating contact zone I Plating contact zone II (termination side)  Derating diagram acc. to IEC 60512-5 (Curr  The current carrying capacity is limited by	Sn over Ni for solder, Ni for press-in Au over PdNi over Ni (Au over Ni for PL3) Au over Ni  Pent carrying capacity)	A 2		0,3 ±0,01	0,75 <sub>-0,07</sub> 0,197 - 0,233 mm <sup>2</sup>			
Plating termination zone  Plating contact zone I  Plating contact zone II (termination side)  Derating diagram acc. to IEC 60512-5 (Curr  The current carrying capacity is limited by of materials for inserts and contacts incli	Sn over Ni for solder, Ni for press-in Au over PdNi over Ni (Au over Ni for PL3) Au over Ni  rent carrying capacity)  / maximum temperature uding terminals.	A 2						
Plating termination zone  Plating contact zone I  Plating contact zone II (termination side)  Derating diagram acc. to IEC 60512-5 (Curr  The current carrying capacity is limited by of materials for inserts and contacts included the current capacity curve is valid for contacts of conterrupted current loaded contacts of conterrupted current loaded contacts of conterrupted current loaded contacts of conterrupted current capacity curve is valid for conterrupted current loaded contacts of conterrupted current loaded contacts of conterrupted current capacity curve is valid for conterrupted current loaded contacts of conterrupted current capacity curve is valid for conterrupted current loaded contacts of conterrupted current capacity curve is valid for conterrupted current loaded contacts of contents.	Sn over Ni for solder, Ni for press-in Au over PdNi over Ni (Au over Ni for PL3) Au over Ni  rent carrying capacity)  / maximum temperature uding terminals. ntinuous, non nnectors when	A 2						
	Sn over Ni for solder, Ni for press-in Au over PdNi over Ni (Au over Ni for PL3) Au over Ni  Pent carrying capacity)  I maximum temperature uding terminals.  Intinuous, non nnectors when one properties and the properties of the	A 2						
Plating termination zone  Plating contact zone I  Plating contact zone II (termination side)  Derating diagram acc. to IEC 60512-5 (Curr  The current carrying capacity is limited by of materials for inserts and contacts included current capacity curve is valid for conterrupted current loaded contacts of conterrupted current loaded contacts is given the maximum temperature.	Sn over Ni for solder, Ni for press-in Au over PdNi over Ni (Au over Ni for PL3) Au over Ni  rent carrying capacity)  / maximum temperature uding terminals. ntinuous, non nnectors when en, without exceeding	A 2 1.5						
Plating termination zone  Plating contact zone I  Plating contact zone II (termination side)  Derating diagram acc. to IEC 60512-5 (Curr  The current carrying capacity is limited by of materials for inserts and contacts included the current capacity curve is valid for conterrupted current loaded contacts of conterrupted current loaded contacts is give the maximum temperature.	Sn over Ni for solder, Ni for press-in Au over PdNi over Ni (Au over Ni for PL3) Au over Ni  rent carrying capacity)  maximum temperature uding terminals.  ntinuous, non nnectors when en, without exceeding	A 2 1.5 1						
Plating termination zone  Plating contact zone I  Plating contact zone II (termination side)  Derating diagram acc. to IEC 60512-5 (Curr  The current carrying capacity is limited by of materials for inserts and contacts included to the current capacity curve is valid for conterrupted current loaded contacts of conterrupted current loaded contacts is given the maximum temperature.	Sn over Ni for solder, Ni for press-in Au over PdNi over Ni (Au over Ni for PL3) Au over Ni  rent carrying capacity)  maximum temperature uding terminals.  ntinuous, non nnectors when en, without exceeding	A 2 1.5 1						
Plating termination zone  Plating contact zone I  Plating contact zone II (termination side)  Derating diagram acc. to IEC 60512-5 (Curr  The current carrying capacity is limited by of materials for inserts and contacts included current capacity curve is valid for contacts of contacts is given	Sn over Ni for solder, Ni for press-in Au over PdNi over Ni (Au over Ni for PL3) Au over Ni  rent carrying capacity)  maximum temperature uding terminals.  ntinuous, non nnectors when en, without exceeding	A 2 1.5 1		0,3±0,01	0,197 - 0,233 mm²		Ref.	
Plating termination zone  Plating contact zone I  Plating contact zone II (termination side)  Derating diagram acc. to IEC 60512-5 (Curr  The current carrying capacity is limited by of materials for inserts and contacts included the current capacity curve is valid for conterrupted current loaded contacts of conterrupted current loaded contacts is give the maximum temperature.	Sn over Ni for solder, Ni for press-in Au over PdNi over Ni (Au over Ni for PL3) Au over Ni  rent carrying capacity)  maximum temperature uding terminals.  ntinuous, non nnectors when en, without exceeding	A 2 1.5 1			0,197 - 0,233 mm²  mm		Ref. Sub. DS 09 03 210 00 01 E	C01482 11.08.11
Plating termination zone  Plating contact zone I  Plating contact zone II (termination side)  Derating diagram acc. to IEC 60512-5 (Curr  The current carrying capacity is limited by of materials for inserts and contacts included to the current capacity curve is valid for conterrupted current loaded contacts of conterrupted current loaded contacts is given the maximum temperature.	Sn over Ni for solder, Ni for press-in Au over PdNi over Ni (Au over Ni for PL3) Au over Ni  rent carrying capacity)  maximum temperature uding terminals.  ntinuous, non nnectors when en, without exceeding	A 2 1.5		All Dimensions in Original Size DIN	0,197 - 0,233 mm²  mm	by Standardisation	Sub. DS 09 03 210 00 01 E	C01482 11.08.11 State
Plating termination zone  Plating contact zone I  Plating contact zone II (termination side)  Derating diagram acc. to IEC 60512-5 (Curr  The current carrying capacity is limited by of materials for inserts and contacts included to the current capacity curve is valid for conterrupted current loaded contacts of conterrupted current loaded contacts is given the maximum temperature.	Sn over Ni for solder, Ni for press-in Au over PdNi over Ni (Au over Ni for PL3) Au over Ni  rent carrying capacity)  maximum temperature uding terminals.  ntinuous, non nnectors when en, without exceeding	A 2 1.5 1 0.5		All Dimensions in Original Size DIN  All rights reserv	mm Scale Free size tol. A3 1:1 ed Created by Inspected TWAHD INAMS	by Standardisation HOFFMANN	Sub. DS 09 03 210 00 01 E	
Plating termination zone  Plating contact zone I  Plating contact zone II (termination side)  Derating diagram acc. to IEC 60512-5 (Curr  The current carrying capacity is limited by of materials for inserts and contacts included to the current capacity curve is valid for contacts included current loaded contacts of contacts in give the maximum temperature.	Sn over Ni for solder, Ni for press-in Au over PdNi over Ni (Au over Ni for PL3) Au over Ni  rent carrying capacity)  maximum temperature uding terminals.  ntinuous, non nnectors when en, without exceeding	A 2 1.5 1 0.5 0 20 40 6	60 80 100 120 °C	All Dimensions in Original Size DIN  All rights reserv	mm Scale Free size tol. A3 1:1  ed Created by Inspected ZWAHR DAHMS	HOFFMANN	Sub. DS 09 03 210 00 01 E	State Final Release  Doc-Key / ECM-
Plating termination zone  Plating contact zone I  Plating contact zone II (termination side)  Derating diagram acc. to IEC 60512-5 (Curr  The current carrying capacity is limited by of materials for inserts and contacts included to the current capacity curve is valid for contacts included current loaded contacts of contacts in give the maximum temperature.	Sn over Ni for solder, Ni for press-in Au over PdNi over Ni (Au over Ni for PL3) Au over Ni  rent carrying capacity)  maximum temperature uding terminals.  ntinuous, non nnectors when en, without exceeding	A 2 1.5 1 0.5 0 20 40 6	50 80 100 120 °C emperature [°C]	All Dimensions in Original Size DIN  All rights reserv  Department EC PD - D	mm Scale Free size tol. A3 1:1  ed Created by Inspected ZWAHR DAHMS	HOFFMANN	Sub. DS 09 03 210 00 01 E	State Final Release  Doc-Key / ECM-
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