1	2	3	4	5	6	7	8
RTING	DIN Signal female c	onnector - SMC	CALUS ROHS	Soldering instructions		· · · · · · · · · · · · · · · · · · ·	-
				SMC (Surface Mount Compa	atible) connectors are designed to be used in a re	eflow oven together with other SMD (Surface	Mount Device) components. In this process, calle
		÷	-	be assembled on the pcb s	Reflow", the connectors are inserted into plated surface.	through holes in a comparable way to conven	ntional component mounting. All other components
eral information		·		The length of the connect	tor contacts should be such that they protrude by	y no more than 1.5 millimetres after insertion	to the pcb. Each contact collects solder on its
	tynes R 21	3, 3B, C, 2C, 3C, M			er paste in the hole. So if the contact is too long, g process, therefore the quality of the soldered c		ow back into the plated through hole by capillar
sign	female	J, JD, C, ZC, JC, II		l			
. of contacts ntact spacing	max. 96 2,54mm			Quantity of solder paste			
est voltage	1000V			Before the components ar	re assembled, solder paste must be applied to all t	the solder pads (for connecting surface-mour	nt components) and the plated through holes.
ontact resistance	max. 15m0hm			To ensure that the plated	d through holes are completely filled, significantly nods available which are complicated to apply. The	more solder paste must be applied than trad	ditional solder pads on the pcb surface. There a
sulation resistance orking current	min. 10º0hm 2A at 20°C (for signal contacts, see derating	diagram)		VPaste = 2(VH - VP)	ous avaitable which are complicated to apply. The	Tottowing rule of mains has proved valuable	iii practice.
emperature range	-55°C +125°C			in which:			
	max. 15s at 240°C for reflow soldering			VPaste = Required volume VH = Volume of the plater			
ermination technology earance & creepage distance	SMC with solder pins min. 1.2mm each			VP = Volume of the conne	ector termination in the hole		
ediance a creepage distance	16-pole max. 15N 20-pole max	x. 20N		Comment: the multiplier "2	2" compensates for solder paste shrinkage during s	soldering. For this purpose, it was assumed t	that 50 % of the paste consists of the actual s
sertion and withdrawal force	30-pole max. 30N 32-pole max			the other 50 % being sold	ering aids.		
	48-pole max. 45N 64-pole ma PL 1 acc. to IEC 60603-2	x. 60N 96-pole max. 90N 500 mating cycles		Cross section of solder pi	ins		
ating cycles	PL 2 acc. to IEC 60603-2	400 mating cycles		4 0002 2 0002 2			
	PL 3 acc. to IEC 60603-2	50 mating cycles		A= 0,203mm ² - 0,233mm ²			
. file NHS – compliant	E102079 Yes						
radfree	Yes						
ot plugging	No						
				0,75_0,05			
nsulator material				<u>_</u>			
Material	PCT (thermoplastics, glass fiber reinforcemen	+ 30%)		-			
olour	natural coloured, colour deviations and speck			-			
L classification	UL 94-V0			<u>_</u>			
Naterial group acc. IEC 60664-1	(400 <u><</u> CTI < 600)			_			
IFF classification	13, F3			-			
				_			
ontact material			-	-			
ontact material	Copper alloy			<u> </u>			
Plating termination zone	Sn over Ni			_			
lating contact zone	Au over PdNi over Ni			-			
	the A			<u> </u>			
erating diagram acc. to IEC 60512-5 (Current ne current carrying capacity is limited by ma	ximum temperature	A	-	-			
f materials for inserts and contacts including	g terminals.	2					
he current capacity curve is valid for contin	uous, non						
terrupted current loaded contacts of connect multaneous power on all contacts is given, v	crors when without exceeding	1.5	\rightarrow				
he maximum temperature.	-						
ontrol and test procedures according to DIN	IEC 60512-5	_ peo _ 1					
onnot and rear procedures according to bin		Electrical Load [A]		1 1 1// 1 1 1	mensions in mm Scale Free size tol.	<u> </u>	Ref.
ormor and rear processing to bin		Electr	$ \cdot \cdot \cdot \cdot \cdot $	Origina	al Size DIN A3 1:1		Sub. DS 09 06 123 02 02 / EC01482 / 08.06.2011
miner one rest proceeding to sim		0.5			3 1 5 3 5 1 7 5 4 1	· I	Date State
on to the rest proceed to activising to sin				Department E	ZWAHR DAHM		2014-01-08 Final Release
on to the rest proceed to according to sin					Title DIN C' I C	I CMC	Doc-Key / E
met die rest proceed as ectorolog to sin				<u> </u>		ale connector - SMI	100561557/UGD
met die rest proceed es decorang to sin		0 20 40	60 80 100 120	<u> </u>	DIN Signal fema		
and the rest proceeds to determine to since		0 20 40	60 80 100 120 °C	HARTING Electronics Gmb	UII		
	2	0 20 40		_		09032130201	100561557/UGD/ 50000070137 Rev. B