STRAIGHT PCB RECEPTACLE

EDGE CARD - PIN IN PASTE VERSION

R197.160.C18
Series : **SMB**
CARLOCK

21.82

1.65

10.1

1.32

10

150 N

4.47

CODING C

10

2.7 ±0.1

4 x □1 ±0.03

Detail D

speed for draw-out
strength (150N): 100mm/min

2.6 ±0.05

5 ±0.03

6.975 0 -0.050

RADIALL

Section of detail D (7 : 1)

Center contact

0.04 ±0.06

gravity center

SCALE: 1/1

Solder path of the body

All dimensions are in mm.

COMPONENTS	MATERIALS	PLATING (μm)	
BODY	ZINC ALLOY	TIN FOR HI TEMPERATURE	
CENTER CONTACT	BRASS	GOLD 0.5 OVER NICKEL 2	
OUTER CONTACT	-	-	
INSULATOR	PTFE		
GASKET	-		
OTHERS PARTS	-	-	
-	-	UL CLASSIFICATION	COLOR
-	-		
HOUSING	PA 4.6 30%GF	UL 94 V2	BLUE RAL 5005

* According to FAKRA specification

RADIALL ®

STRAIGHT PCB RECEPTACLE

EDGE CARD - PIN IN PASTE VERSION

R197.160.C18
Series : **SMB**
CARLOCK

PACKAGING

Standard	Unit	Other
350	**'W' option**	**Contact us**

SPECIFICATION

QS9000
SN 55228-2**

ELECTRICAL CHARACTERISTICS

Impedance	**50**	Ω
Frequency	**0-4**	GHz
VSWR	**1.06*** + **0,0130**	x F(GHz) Maxi
Insertion loss	**0.03***	$\sqrt{F(GHz)}$ dB Maxi
RF leakage	- (	- F(GHz)) dB Maxi
Voltage rating	**335**	Veff Maxi
Dielectric withstanding voltage	**1000**	Veff mini
Insulation resistance	**1000**	MΩ mini

ENVIRONMENTAL

Operating temperature	**-40/+110**	° C
Hermetic seal	**NA**	Atm.cm3/s
Panel leakage	**NA**	

OTHER CHARACTERISTICS

Assembly instruction

Others :
*COAX TRANSMISSION LINE ONLY
**Complaint except that 2D label does
not include the shipping note number.

MECHANICAL CHARACTERISTICS

Center contact retention
Axial force – Mating end	**10**	N mini
Axial force – Opposite end	**10**	N mini
Torque	**NA**	N.cm mini

Recommended torque
Mating	**NA**	N.cm
Panel nut	**NA**	N.cm

Mating life	**50**	Cycles mini
Weight	**2,2300**	g

RADIALL ®

STRAIGHT PCB RECEPTACLE

EDGE CARD - PIN IN PASTE VERSION

R197.160.C18
Series : **SMB**
CARLOCK

MOUNTING ZONE FOR RECEPTACLE

10,7

10,5

5,3

4,3

3

6 ±0,05

4

2,07

2,93

2,1 min.

2,3

5 ±0,05

4 plated holes
⌀ 1,6 ±0,05
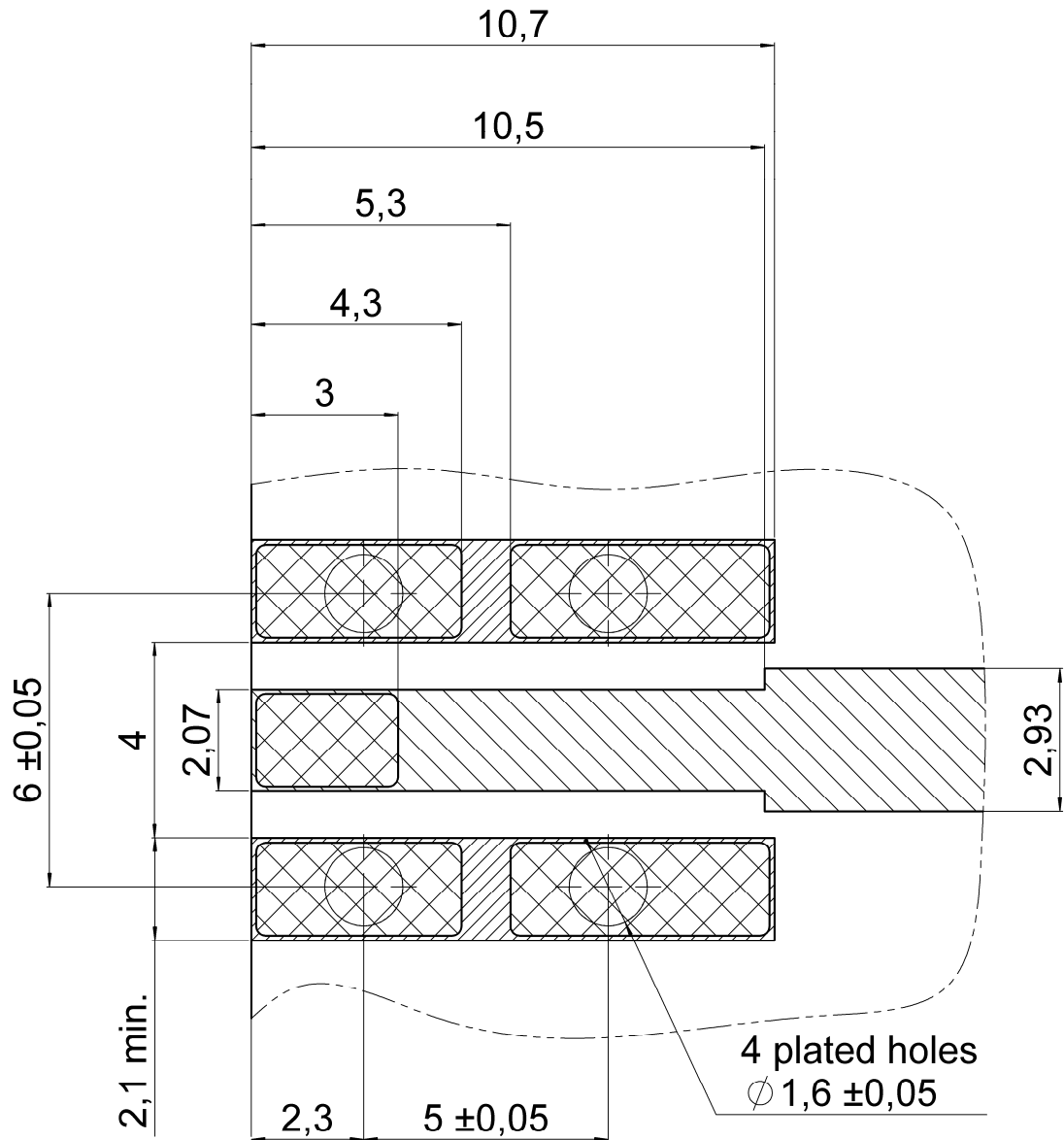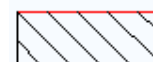
Thickness of PCB: 1,6 mm.
Material of PCB: FR4 (εr = 4.6).
Solder paste has to be printed onto the land of
solder and into holes to permit Pin In Hole Reflow
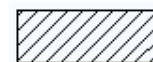
Ground track

Signal track

Land for solder

RADIALL®

STRAIGHT PCB RECEPTACLE

EDGE CARD - PIN IN PASTE VERSION

R197.160.C18
Series : **SMB**
CARLOCK

SOLDER PROCEDURE

1. Deposition of solder paste 'Sn Ag4 Cu0.5' on mounting zone by screen printing application. We recommend a low residue flux.
We advise a thickness of 0.2 millimetres min. (0.008 inch min.). Verify that the edges of the zone are clean.

2. Placement of the receptacle on the mounting zone with an automatic machine of 'pick and place' type.
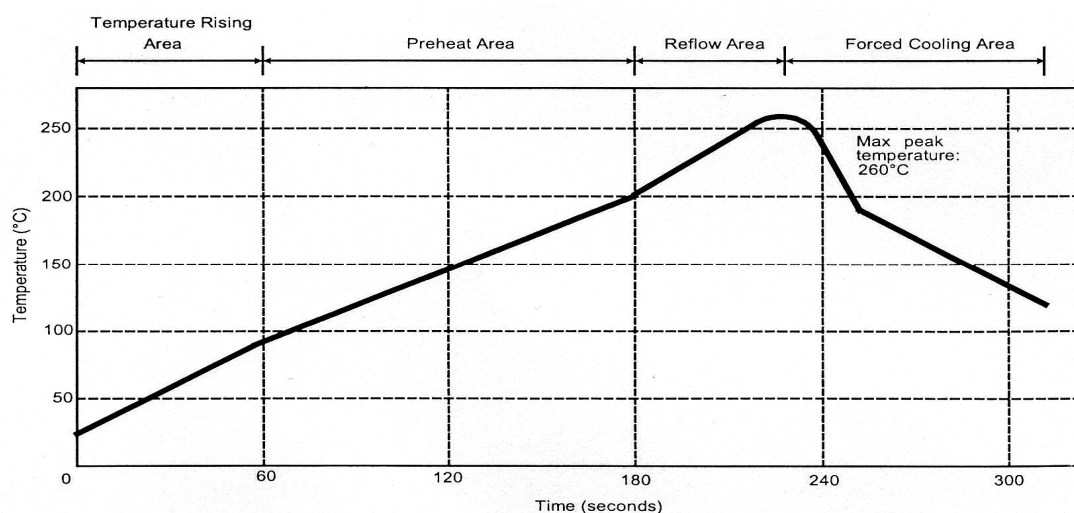Video camera is recommended for the positioning of the component. Adhesive agents must not be used on the receptacle.

3. Soldering by infra-red reflow.
Below, please find the typical profile to use.

4. Cleaning of printed circuit boards.

5. Checking of solder joints and position of the component by visual inspection.

TEMPERATURE PROFILE

Parameter	Value	Unit
Temperature rising Area	1 - 4	°C/sec
Max Peak Temperature	260	°C
Max dwell time @260°C	10	sec
Min dwell time @235°C	20	sec
Max dwell time @235°C	60	sec
Temperature drop in cooling Area	-1 to - 4	°C/sec

Issue : 0943 C
In the effort to improve our products, we reserve the right to make changes judged to be necessary.

RADIALL®

STRAIGHT PCB RECEPTACLE

EDGE CARD - PIN IN PASTE VERSION

R197.160.C18
Series : **SMB**
CARLOCK

REEL PAKAGING PER 350

$\varnothing$ **330**

Label for identification :

CELL MATERIAL :
Polycarbonate
COVER TAPE MATERIAL :
conductive polyester film tape
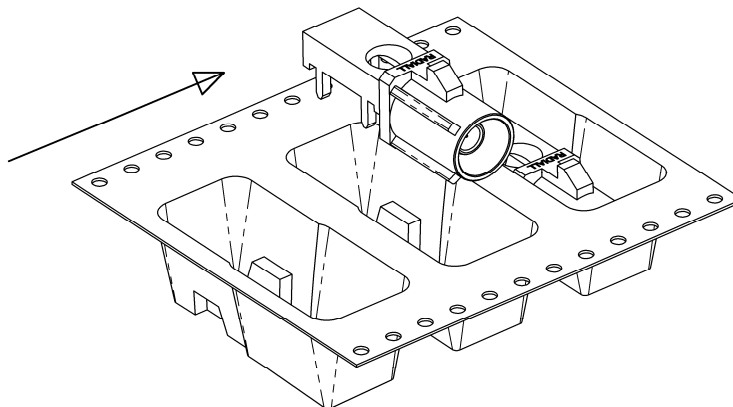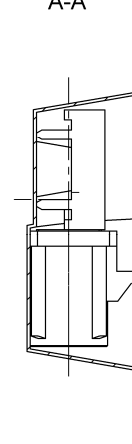
Cust P/N A2CS3375233   Quantity :   350
Supplier P/N R197160H18   Batch ID   0101
Package ID SA99 991   Date code W0852
Expiry date 30072010   Batch-no A99.99
Supplier name RADIALL SA / ID 0293

16

A

44

A-A

A

Issue : 0943   C
In the effort to improve our products, we reserve the right to make changes judged to be necessary.

RADIALL®

STRAIGHT PCB RECEPTACLE

EDGE CARD - PIN IN PASTE VERSION

R197.160.C18
Series : **SMB**
CARLOCK

| CODING A |
| COLOR BLACK RAL 9005 |

| CODING B |
| COLOR CREAM WHITE RAL 9001 |

| CODING C |
| COLOR BLUE RAL 5005 |

| CODING D |
| COLOR BORDEAUX VIOLET RAL 4004 |

| CODING E |
| COLOR GREEN RAL 6002 |

| CODING F |
| COLOR BROWN RAL 8011 |

| CODING G |
| COLOR GREY RAL 7031 |

| CODING H |
| COLOR VIOLET RAL 4003 |

| CODING I |
| COLOR BEIGE RAL 1001 |

| CODING K |
| COLOR CURRY RAL 1027 |

| CODING Z |
| COLOR WATER BLUE RAL 5021 |

| UL CLASSIFICATION |
| UL 94 V-2 |
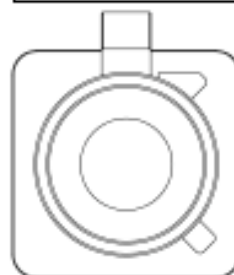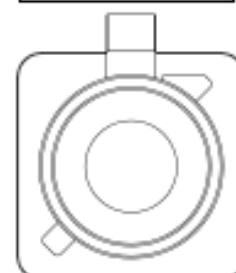
*According to FAKRA specifications

To obtain other coding for the connector please change the letter by the needed coding letter into the Part Number

RADIALL®