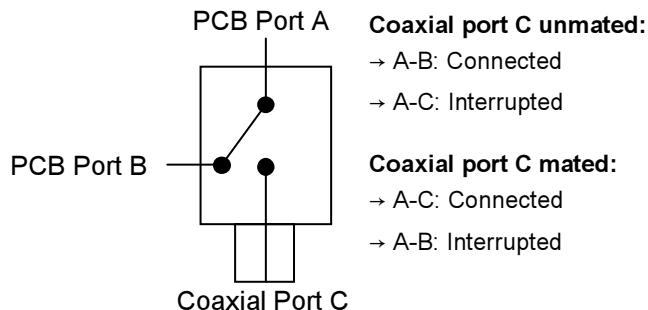


HUBER+SUHNER® DATA SHEET

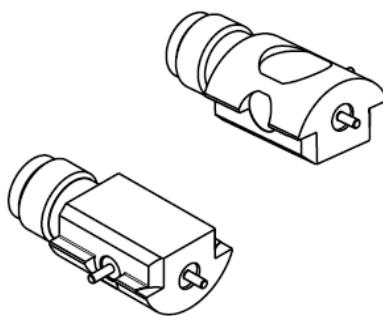
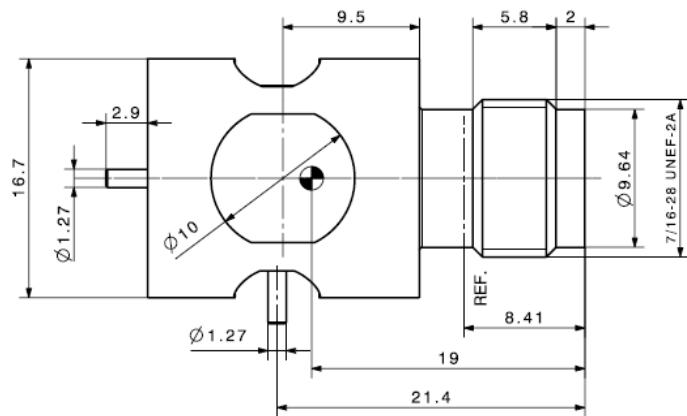
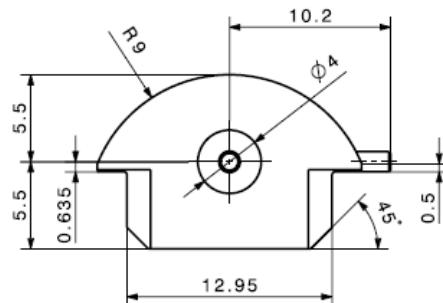
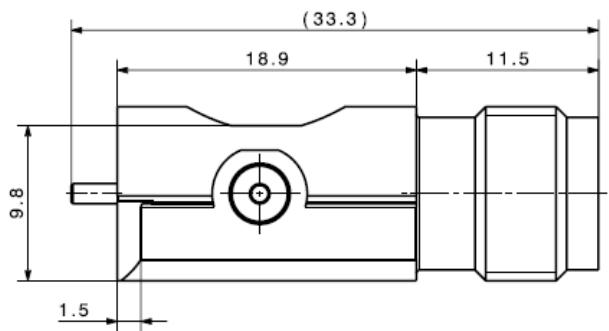
RF Power Switch TNC Interface: PS92_TNC-50-0-6/111_N



Description: RF Power Switch edge mount PCB jack



Outline dimension



Centre of gravity

HUBER+SUHNER is certified according to ISO 9001 and ISO 14001

WAIVER!

It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical contained specifications and/or the fitness for any particular purpose. The facts and figures herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.



HUBER+SUHNER AG
RF Technology
9100 Herisau, Switzerland
Phone +41 (0)71 353 41 11
Fax +41 (0)71 353 45 90
www.hubersuhner.com

HUBER+SUHNER – Excellence in Connectivity Solutions

HUBER+SUHNER® DATA SHEET

RF Power Switch TNC Interface: PS92_TNC-50-0-6/111_N



RF Power Switch TNC Interface - Technical Data

TYPICAL ELECTRICAL DATA	TESTING STANDARD	REQUIREMENTS	
Impedance		50 Ω	
Frequency range		DC ... 4 GHz	
Return loss (Measurement done with H+S test board, PCB layout on page 4)		Transmission line to switched line	Transmission line to direct line
DC ... 1 GHz		21 dB	21 dB
1 ... 2 GHz		18 dB	18 dB
2 ... 3 GHz		16 dB	16 dB
3 ... 4 GHz		12 dB	12 dB
Insertion loss switched and direct line		DC ... 1 GHz 1 ... 2 GHz 2 ... 4 GHz	0.10 dB 0.15 dB 0.25 dB
Isolation between switched and direct line		DC ... 1 GHz 1 ... 2 GHz 2 ... 3 GHz 3 ... 4 GHz	47 dB 43 dB 40 dB 35 dB
Power handling (continues power) ¹⁾		DC ... 4 GHz	100 W
Current DC at 25°C		4 Ampere	
Dielectric withstanding voltage (at sea level)	MIL-STD-202, Method 301	500 V rms, 50 Hz	
Working voltage (at sea level)	MIL-STD-202, Method 301	170 V rms, 50 Hz	
Insulation resistance	MIL-STD-202, Method 302	≥ 5 GΩ	
Contact resistance - centre contact - outer contact (switched line)	MIL-PRF-39012, Paragraph 4.7.13	≤ 6 mΩ ≤ 3 mΩ	

TYPICAL MECHANICAL DATA	TESTING STANDARD	REQUIREMENTS	
Coupling nut torque - recommended - proof torque		46 Ncm ... 69 Ncm / 4.1 in. lbs ... 6.1 in. lbs 170 Ncm / 15 in. lbs	
Switching movement in connector interface		max 3 mm	
Centre contact retention force	MIL-PRF-39012, Paragraph 4.7.9	Lateral pins ≥ 2 N / 0.4 lbf Interface contact ≥ 28 N / 6.3 lbf (only pushing)	
Weight		21.5 g	
Durability (matings)	MIL-PRF-39012, Paragraph 4.7.12	500	

TYPICAL PROCESSING DATA	TESTING STANDARD	REQUIREMENTS	
Adherent to the print - shearing ²⁾ - pulling (vertical to PCB) ²⁾ - torque ²⁾		> 80 N for 1 min > 80 N for 1 min 1.7 Nm	
Lead free reflow solder process	IPC / JEDEC J-STD-020C	recommended	
Packing	EIA-STD-481	Tape and Reel 44 mm width	

1) Turn off system before switching the RF Power Switch. Under load maximum short term temperature +105°C / 221°F up to 60 seconds.

2) Valid for recommended PCB structure only, force applied on interface reference plane.

HUBER+SUHNER® DATA SHEET

RF Power Switch TNC Interface: PS92_TNC-50-0-6/111_N



RF Power Switch TNC Interface - Technical Data (cont.)

TYPICAL ENVIRONMENTAL DATA	TESTING STANDARD	REQUIREMENTS
Temperature range	Long term	-40°C ... +85°C / -40°F ... 185°F
Corrosion	MIL-STD-202, Method 101, Condition B	Salt mist test 48 h
High temperature endurance	IEC-61-169-1	400 h / +165°C
Thermal shock	MIL-STD-202, Method 107, Condition A modified	-40°C ... +85°C / -40°F ... 185°F
Solderability	MIL-STD-883D	Field test
Vibration	MIL-STD-202, Method 204, Condition A	10g Max. interruption < 1µs
Mechanical shock	MIL-STD-202, Method 213, Condition I	100g / 6ms Max. interruption < 1µs
Basic transportation	MIL-STD-810E	Common carrier environment 2000 miles

MATERIAL DATA

CONNECTOR PART	STANDARDS	MATERIAL	PLATING
Centre contact	QQ-C-530 / QQ-B-626	copper beryllium / brass	SUCOPRO gold plating
Outer contact	QQ-B-626	brass	SUCOPRO gold plating
Body	QQ-B-626	brass	SUCOPRO gold plating
Insulator	SUHNER® specification	PEEK / PTFE	

ENVIRONMENTAL SAFETY

TITLE	STANDARD	STATUS
DIRECTIVE 2002/95/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)	2002/95/EC	Compliant (using exception 6)

The products are designed and guaranteed to pass the above mentioned test procedures. Any additional or different requirement arising from specific applications or environmental conditions which is not covered by these test procedures is subject to request.

Ordering Information

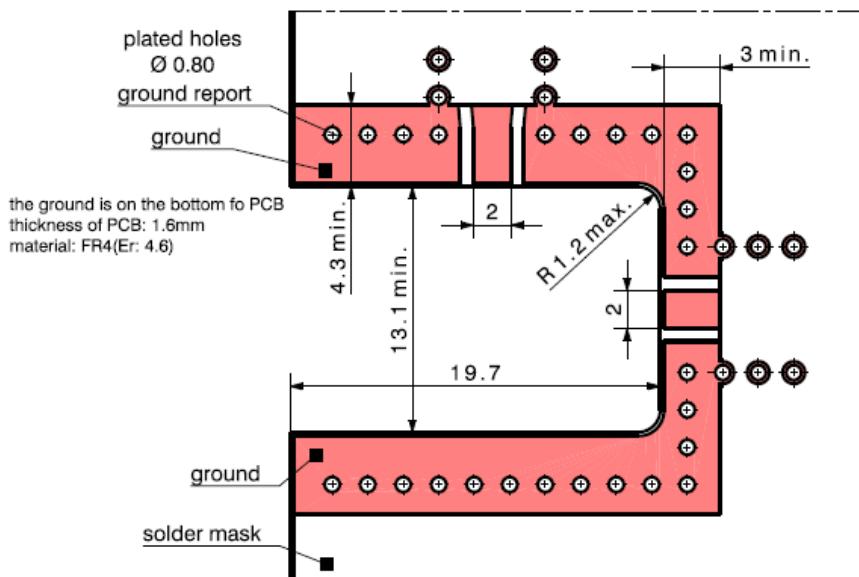
Tape and reel package PS92_TNC-50-0-6/111_NM Item number: 84020371
Single package PS92_TNC-50-0-6/111_NE Item number: 84024804

HUBER+SUHNER® DATA SHEET

RF Power Switch TNC Interface: PS92_TNC-50-0-6/111_N



PCB Layout



Packaging

Tape according to standard IEC 286-3 / EIA-481 44 mm width
Reel outer diameter 330mm (13") inclusive 110 pieces
Packaging unit 5 reels per box total 550 pieces

