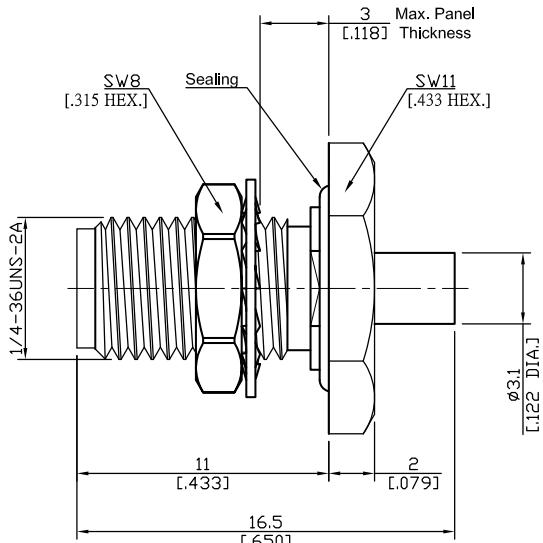
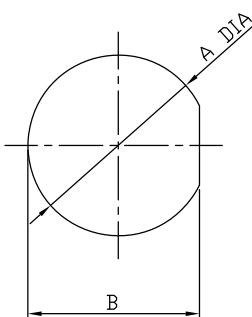


SMA Jack (Female) Bulkhead Mount With Sealing
Center Conductor: Plug-in, Cable Entry: Solder Attachment DC-18GHz VSWR1.20

SMA2EAS50-EZ085E / 91



MOUNTING DIMENSIONS



	mm	inch		
	MAX.	MIN.	MAX.	MIN.
A	7.3	7.2	.287	.283
B	6.9	6.8	.272	.268

All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

According to

IEC 60169-15; MIL-STD-348B/310

Electrical Data

Impedance

50 Ω

Frequency

DC to 18 GHz

VSWR (Return Loss)

≤ 1.20 (≥ 20.83 dB)

Insertion Loss

≤ 0.03 x √F (GHz) dB

Insulation Resistance

≥ 5 GΩ

Center Contact Resistance

≤ 3 mΩ

Outer Contact Resistance

≤ 2 mΩ

Test Voltage

1000 V rms

Working Voltage (at sea level)

480 V rms

Power Handling (at 20 °C, sea level, VSWR 1.0)

≤ 200 W @ 2 GHz

≥ 100 dB up to 1 GHz

- Limitations are possible due to the used cable type -

Material And Plating

Connector parts	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 5 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Body	Brass	Gold plating, 5 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Insulator	PTFE	

SMA Jack (Female) Bulkhead Mount With Sealing
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SMA2EAS50-EZ085E / 91

Mechanical Data

Coupling mechanisms	Screw-lock
Mating Cycles	min. 500
Cable entry	Soldered
Center conductor	Plug-in
Coupling Test Torque	max. 1.7 Nm
Recommended Torque	0.8 Nm to 1.1 Nm

Environmental Data

Temperature Range	-65°C to +155°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Corrosion	MIL-STD-202, Meth. 101, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond.D
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture Resistance	MIL-STD-202, Meth. 106
RoHS	compliant

Suitable Cables

RSR-086, RSF-086, RSF-086-FEP, RSF-086-PVC, RG-405; BELDEN 1671A; BELDEN 1671J

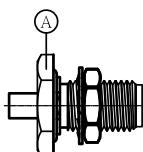
Packing

Single or 100

SMA Jack (Female) Bulkhead Mount With Sealing
Center Conductor: Plug-in, Cable Entry: Solder Attachment DC-18GHz VSWR1.20
SMA2EAS50-EZ085E / 91

Connector Type:	SMA2EAS50-EZ085E/91	Inner Conductor Contact:	Plug-in
Suitable Cable:	RSR-085, RSF085, .085 .086 Cables EF405, SS405	Outer Conductor Contact:	Soldered

Parts List of Connector:



Note:
For EF405 or SS405 Flexible Cable and Semi-Form option FEP Jacket cable it is recommended to use a "Heat Shrink Tube".
The "Heat Shrink Tube" is not included in the connector.

Assembly Steps:

Picture	Process	Attention/Check	Tools Required
	For Semi-Rigid and Semi-Form cable: Trim cable according to drawing. Deburr center contact. Dimension 15 mm applies to option FEP Jacket.	Stripping cable end perpendicular to cable axis. Do not damage center contact.	Blade Scissor
	For EF405 or SS405 Flexible Cable: Trim cable according to drawing. Flux and Tin dip according to drawing. Remove cable dielectric according to drawing. Deburr centre contact.	Do not damage center contact, dielectric and braid. The solder must flow at behind for min. 1.5 mm. If the cable does not fit into the cable entry, use a flat-nose plier to calibrate the outer contact. If center contact is stranded must be tinned.	Blade Flat-nose Plier
	Screw SMA Fixture on the body "A" Push connector body "A" over cable until it to stop. Push connector body "A" completely against locator tool. Solder connector body "A" to cable.	Do not damage center contact. Avoid excessive heat. Promptly swap soldered area with alcohol to cool joint and remove any residual flux.	Locator Tool: RST-100-003 Soldering Fixture: RST-100-001 Soldering Insert: RST-100-085A (RSR, RSF or UT085) RST-100-405A (EF405 or SS405)
	Slide heat shrink tube over connector body "A" and shrink with Heat-Gun.		Heat-Gun.