

MODEL: PJ-118-X7 | **DESCRIPTION:** DC POWER JACK**FEATURES**

- 3 conductor with signal pin
- wave solderable
- IPX7 rated

**SPECIFICATIONS**

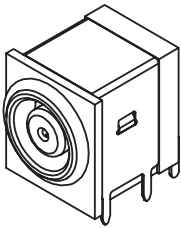
parameter	conditions/description	min	typ	max	units
rated input voltage			20		Vdc
rated input current	power pin			10	A
	signal pin			1	A
contact resistance				20	mΩ
insulation resistance	at 250 Vdc	100			MΩ
voltage withstand	for 1 minute			500	Vac
insertion/withdrawal force		1.5		3	kg
operating temperature		-25		85	°C
life			5,000		cycles
flammability rating	UL94V-0				
RoHS	yes				
IP rated	IPX7				

SOLDERABILITY

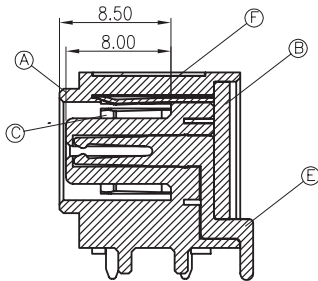
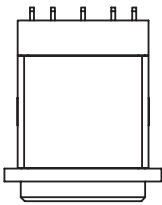
parameter	conditions/description	min	typ	max	units
wave soldering	for 5±0.5 seconds	255	260	265	°C

MECHANICAL DRAWING

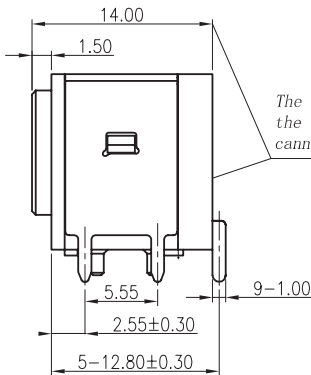
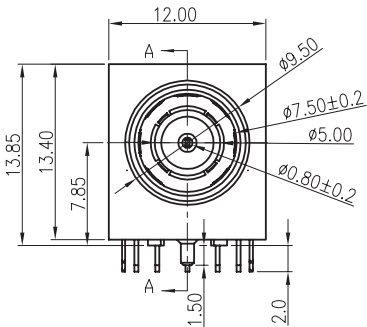
units: mm
tolerance:
X. ± 0.50 mm
X.X ± 0.30 mm
X.XX ± 0.20 mm
X.XXX ± 0.10 mm
PCB: ± 0.05 mm
unless otherwise specified



ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
A	housing	PA10T [UL94V-0]	black
B	cover	PA10T [UL94V-0]	black
C	spring [-]	copper alloy t=0.3	silver
D	contact [+]	copper alloy t=0.3	silver
E	signal [S]	copper alloy t=0.3	silver
F	shell	brass t=0.25	nickel
G	o-ring	silica gel	black

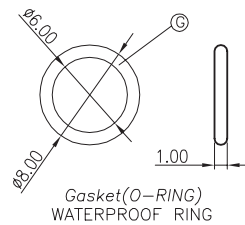
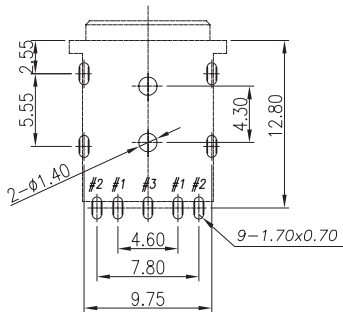
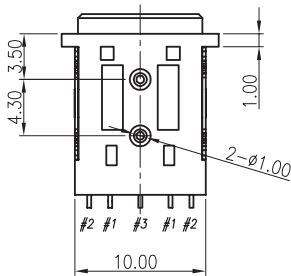
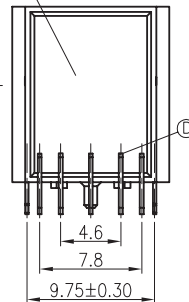


SECTION A-A
SCALE 1:1



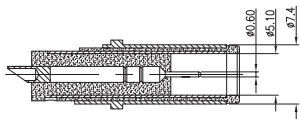
This side is the
glue-sealed side.

The total size of
the sealed surface
cannot exceed 14.20.



Gasket(O-RING)
WATERPROOF RING

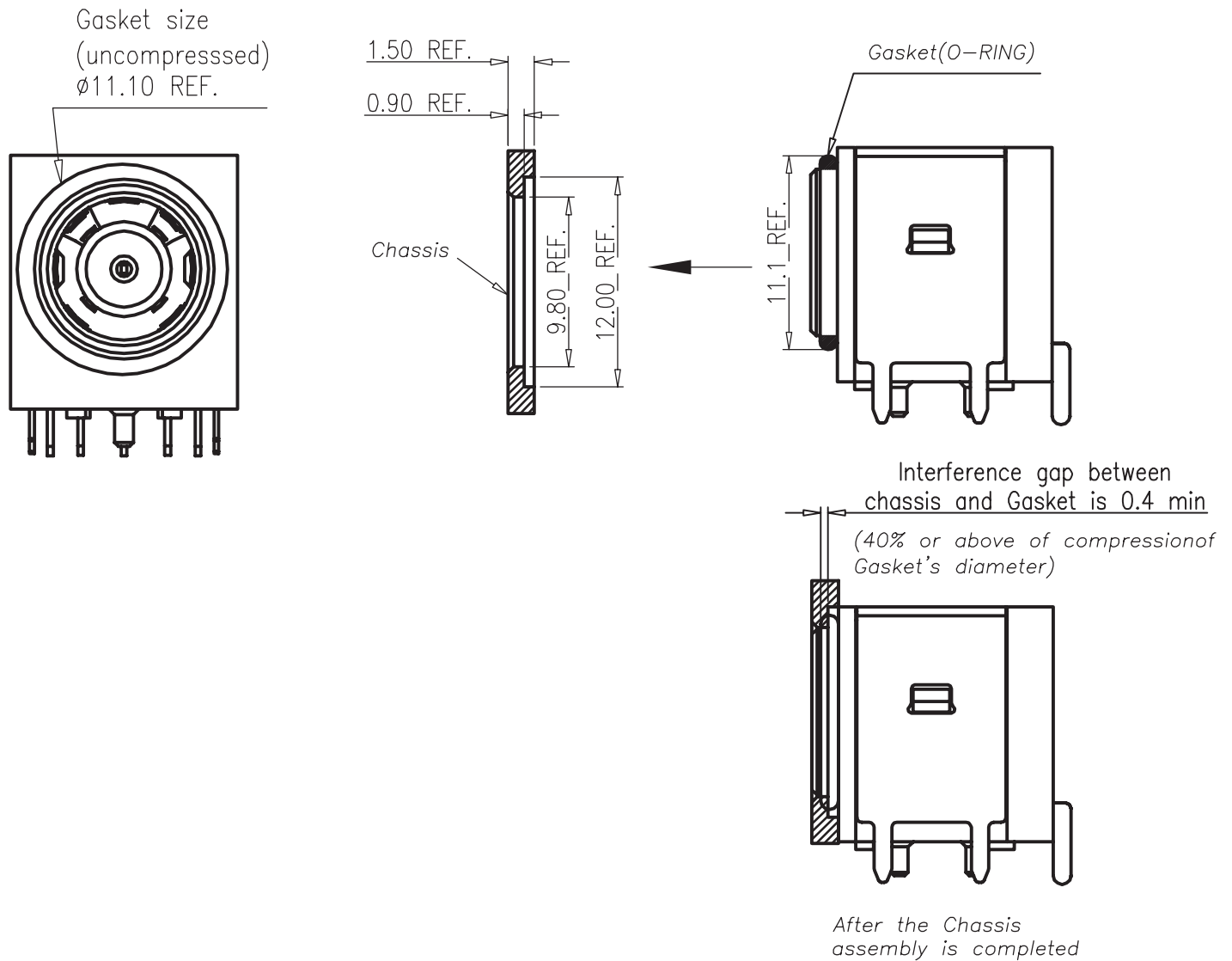
Recommended PCB Layout
Top View



MATING PLUG
Jack Insertion Depth: 8.50 mm

Schematic	$\oplus$ #1 (+) $\oplus$ #3 (S) $\ominus$ #2 (-)
Model	PJ-118-X7
terminal 1	V+
terminal 2	V-
terminal 3	signal pin

ASSEMBLY REFERENCE



REVISION HISTORY

rev.	description	date
1.0	initial release	11/04/2025
1.01	modified sealant height	07/20/2026

The revision history provided is for informational purposes only and is believed to be accurate.



Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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