

Additional Resources: Product Page

date 11/04/2025

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# MODEL: PJ-118-X7 | DESCRIPTION: DC POWER JACK

#### **FEATURES**

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







### **SPECIFICATIONS**

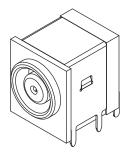
parameter	conditions/description	min	typ	max	units
rated input voltage			20		Vdc
rated input current	power pin signal pin			10 1	A A
contact resistance				20	mΩ
insulation resistance	at 250 Vdc	100			МΩ
voltage withstand	for 1 minute			500	Vac
insertion/withdrawal force		1.5		3	kg
operating temperature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

## **SOLDERABILITY**

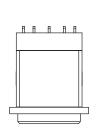
parameter	conditions/description	min	typ	max	units
wave soldering	for 5±0.5 seconds	255	260	265	°C

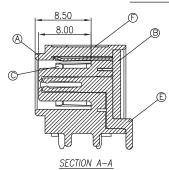
## **MECHANICAL DRAWING**

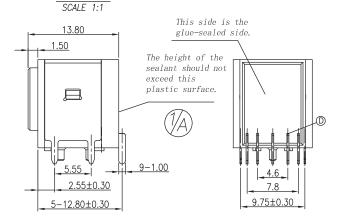
units: mm tolerance: X. ±0.50 mm X.X ±0.30 mm X.XX ±0.20 mm X.XXX ±0.10 mm PCB: ±0.05 mm unless otherwise specified

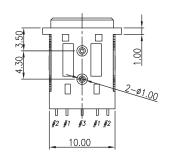


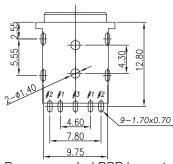
ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
А	housing	PA10T (UL94V-0)	black
В	cover	PA10T (UL94V-0)	black
С	spring (-)	copper alloy t=0.3	silver
D	contact (+)	copper alloy t=0.3	silver
Е	signal (S)	copper alloy t=0.3	silver
F	shell	brass t=0.25	nickel
G	o-ring	silica gel	black

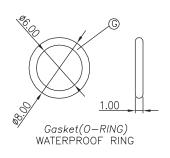










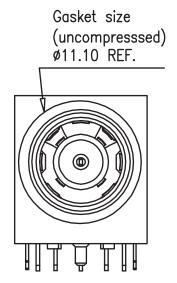


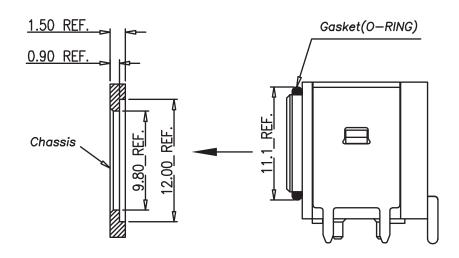
Recommended PCB Layout
Top View

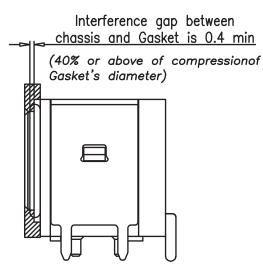
MATING PLUG Jack Insertion Depth: 8.50 mm

Schematic	\( \rightarrow \big  \frac{\pi}{1}(+) \\ \rightarrow \big  \frac{\pi}{3}(s) \\ \rightarrow \big  \frac{\pi}{2}(-) \end{arrow}	
Model	PJ-118-X7	
terminal 1	V+	
terminal 2	V-	
terminal 3	signal pin	

# **ASSEMBLY REFERENCE**







After the Chassis assembly is completed

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#### **REVISION HISTORY**

rev.	description	date
1.0	initial release	11/04/2025

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



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