

1 2 3 4 5 6 7 8 9

A

B

C

D

E

F

G

ROHS

Technical drawing of a DC PLUG (XB-DC-9015) showing dimensions and specifications.

Dimensions (mm):

- Overall height: 24.7±0.4
- Height to top of plug: 23.7±0.4
- Height to top of base: 19.5±0.3
- Height to top of base (excluding plug): 14.5±0.2
- Base diameter: Ø8.8±0.1
- Base thickness: 1.5±0.1
- Base diameter (excluding plug): Ø8.7±0.2
- Base diameter (including plug): Ø9.0±0.1
- Plug diameter: Ø2.0
- Plug diameter (excluding plug): Ø2.5
- Plug length: 2.0±0.2
- Plug diameter (excluding plug): Ø6.2±0.1
- Plug diameter (including plug): Ø6.4±0.2
- Plug diameter (excluding plug): Ø1.5±0.05
- Plug diameter (including plug): Ø10.0±0.1
- Plug diameter (excluding plug): Ø7
- Plug diameter (including plug): Ø5

Technical Requirements (EIAJ RC5320A):

- Appearance: Copper terminals without scratches, pits, or exposure; no poor plating, shrinkage, or discoloration.
- Electrical performance: a. Contact resistance: ≤30mΩ; b. Insulation resistance: DC500V, 100MΩ; c. Withstand voltage: AC500V, 1 minute; d. Rated voltage/current: (RATED VOLTAGE/CURRENT) DC12V 5A.
- Mechanical performance: a. Insertion force: 0.7~4.0Kgf; b. Life test: 5000 cycles; c. Withdrawal force: ≥0.2Kgf; d. Bending force: 3.0Kgf; e. Plug damage: No damage.
- Salt spray test: Normal test conditions for 48 hours, salt concentration 5%.
- Operating temperature: -20°C~45°C.

Technology Request:

- Outlook: No burr, no hurt.
- Electronic performance: a. Insulation resistance: Above DC500V/100MΩ; b. Endure voltage: AC500V at 1 minute; c. Contact resistance: Under 30mΩ.
- Insertion force & withdrawal force: 0.3~3kgf.
- Salt spray test: 24H.
- Meet RoHS.
- Remark * is important specification.

Table 1: General Tolerance

Unit	mm	General Tolerance
比例	5:1	xx.:±0.3
视图	Third angle projection	x.x:±0.1
视图	Third angle projection	.xx:±0.05

Table 2: Material and Plating

Part	Material	Plating
1	PLASTIC	PBT
2	C3602	Ni 1~3um
3	H65	Ni 1~3um
4		
5		
6		
7		
8		
9		

Table 3: Approval and Drawing

Approval	Check	Draw
贺龙飞	赖海杰	龙柳婷
APPROVED BY	CHECKED BY	DRAWN BY

Table 4: Description and Drawing

规格	DESCRIPTION:
品名 <td>P/N:</td>	P/N:
图号 <td>DRAWN NO:</td>	DRAWN NO:

Table 5: Company Information

东莞市溪榜电子有限公司
DONG GUAN XI BANG ELECTRONICS CO., LTD.

Table 6: Product Information

DC PLUG
XB-DC-9015