



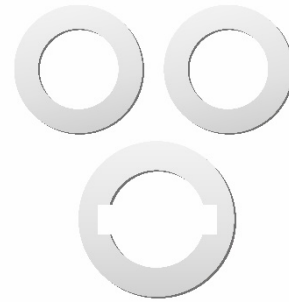
JHD (Annulus) series

Features

- ◆ Resettable overcurrent protection
- ◆ Very low resistance
- ◆ UL(Pending), C-UL(Pending), TUV(Pending)
- ◆ RoHS, Reach, HF compliance

Applications

- ◆ Li-ion cell



Electrical Characteristics

P/N	I_H	I_T	V_{MAX}	I_{MAX}	Max. Time To		P_d typ	Resistance		
	(A)	(A)	(V)	(A)	(A)	(Sec.)	(W)	$R_{MIN}(\Omega)$	$R_{MAX}(\Omega)$	$R_{I_{MAX}}(\Omega)$
JHD-18	3.5	7	15	50	10	10	2.4	0.009	0.016	0.032
JHD-17	3.5	7	15	50	10	10	2.4	0.009	0.016	0.032
JHD-14	1.75	3.5	15	50	8.75	5	2.4	0.009	0.064	0.128
JHD-12	1.75	3.5	15	50	8.75	5	2.4	0.009	0.064	0.128
JHD-20	3.5	7	15	50	10	10	2.4	0.009	0.016	0.032
JHD-24	5	10	15	50	25	5	2.4	0.003	0.007	0.014
JHD-26	5	10	15	50	25	5	2.4	0.003	0.007	0.014
JHD-32	5	10	15	50	25	5	2.4	0.003	0.007	0.014
JHD-34	5	10	15	50	25	5	2.4	0.003	0.007	0.014

Electrical Specifications:

I_H =Hold current: maximum current at which the device will not trip at 25°C still air.

I_T =Trip current: minimum current at which the device will always at 25°C still air.

V_{MAX} =Maximum voltage device can withstand without damage at rated current.

I_{MAX} =Maximum fault current device can withstand without damage at rated voltage.

Max. Time To =Maximum time to trip(s) at assigned current.

P_d =Typical power dissipation: typical amount of power dissipated by the device when in state air environment.

R_{MIN} =Minimum device resistance at 25°C prior to tripping.

R_{MAX} =Maximum device resistance at 25°C prior to tripping.

$R_{I_{MAX}}$ = Maximum resistance of device at 25°C measured one hour after tripping

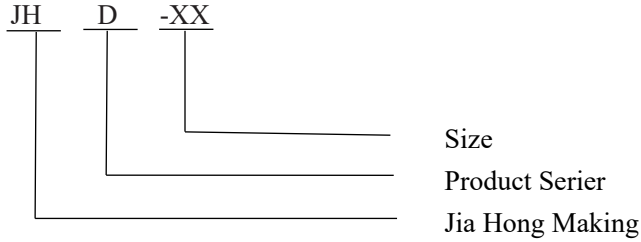
Test Procedures and Requirements

Item	Test Condition	Accept/Reject Criteria
Resistance	In still air @ 25°C	$R_{MIN} \leq R \leq R_{MAX}$
Time to Trip	At specified current, V_{MAX} , 25°C, still air	$T \leq \text{max. time to trip (seconds)}$
Hold Current	30 min. at I_H	No trip
Trip Cycle Life	V_{MAX} , I_{MAX} , 100 cycles	No arcing or burning
Trip Endurance	V_{MAX} , 48 hours	No arcing or burning

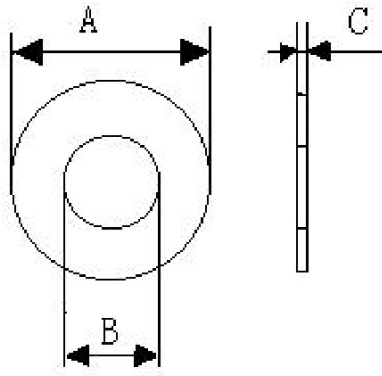


JHD (Annulus) series

Marking System



Product Dimensions



P/N	A		B		C	
	Min	Max	Min	Max	Min	Max
JHD-18	16	17	9	11	0.25	0.35
JHD-17	14	15	6	10	0.25	0.35
JHD-14	12	13	6	8	0.25	0.35
JHD-12	9.5	11	2.5	6.5	0.25	0.35
JHD-20	18	19	10	11	0.25	0.35
JHD-24	20	22	10	13	0.25	0.35
JHD-26	22	24.5	11	14	0.25	0.35
JHD-34	30	32	13	15	0.25	0.35

Packing and Storage

Model	Q'ty/bag
JHD-12~~JHD-18	2000pcs
JHD-20-JHD-34	1000pcs
Tape and Reel Specifications	



JHD (Annulus) series

Application Notice

- Operation beyond the maximum voltage or current may result in device damage and possible electrical arcing or flame.
- The Hold current specified at different temperatures in the datasheet is the conventional performance of after one spot welding or injection. PTC can hold 1 hour at the current corresponding to different temperatures. But this current is not the condition that PTC can charging or discharging current for long time.
- All resistance and the electronic characteristics specified in the datasheet are based on the test tested on the specified testing board which is after one spot welding or injection. The applicability needs to be verified because above parameters may be attenuated if customer has reflow process.
- PTC is thermal sensitive device. It is recommended that no heat source devices be designed to around in order to reduce the outside heat source impact.
- The packing of Strap PTC is spot-welding or injection. The spot welding position should not contact PTC directly, and the injection temperature should not be higher than 250 °C.
- When assembling and applying PTC, the material mark and application parameters (Temperature, Time, and etc.) of all injection or plastic materials, like adhesives, silica gels and etc. should be verified to ensure the consistency between the products and the processing technology. Only it is confirmed that would not influent PTC then can be used.
- When assembling and applying PTC, it is not recommended that using washer water or other cleaner to clean PTC. If it is required, it is necessary to verify the applicability of various cleaner, washer water and solvents, it is also confirmed that they will not affect the PTC performance . Chemicals that are known to have an effect on PTC include, but are not limited to, highly solubility and destructive organic compounds such as ethers, benzenes, ketones, and lipids. Placing the product in open environment for at least 24 hours to volatilize the residual solvents.
- Please lease do not smash, clamp, pull, dent, twist and etc. to PTC during assembling process to avoid the performance degradation.
- In the application, It is recommended to reserve a certain space for the PTC, the reserved space is recommended not less than 20% of the PTC thickness.
- The Strap PTC shelf life of the Carbon Black series is 2 years after delivery, and LOWLOSS series Strap PTC is 1 years after delivery. Please use it within the corresponding shelf life