



# 深圳市佑驰电子有限公司

Specification for Approval

产品名称： 大电流扁线电感  
规格型号： HCZH-2918HT-150-M  
产品编号： YC-2023032102  
日期： 2023-03-21

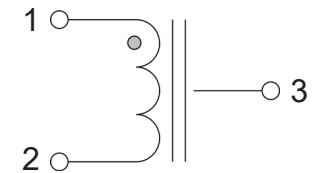
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核准	审核	制作
	Aaron	Ada

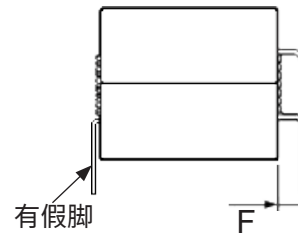
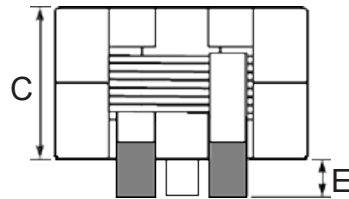
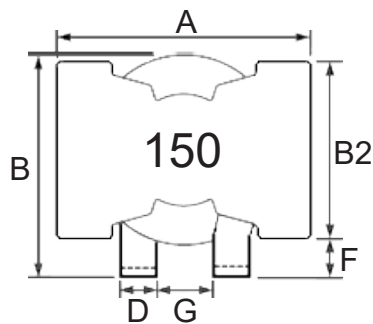
## Explanation of part numbers:

HCZH	2918	H	T	-	150	-	M
				-		-	
Series Codes	Size Codes	DCR Type	Pins Type		Inductance Codes		Tolerance

## Schematic:



## Product dimensions:(mm)



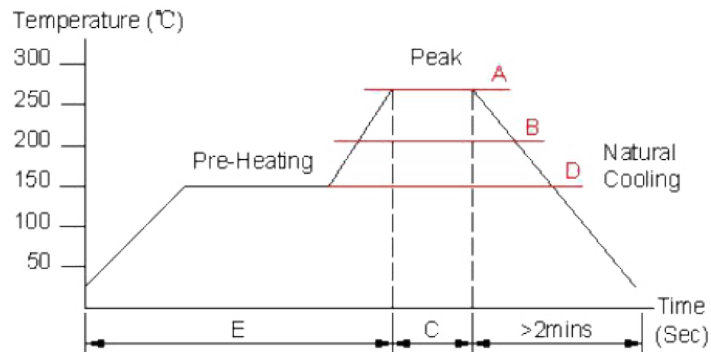
A	27.9Max.
B	24.0Max.
B2	19.5Max.
C	17.8Max.
D	3.8±0.3
E	3.5Ref.
F	3.0Ref.
G	6.6±0.5

## Electrical characteristics:

Item P/N	Inductance	Heat Rating DC Current(I <sub>dc</sub> )	Saturation DC Current(I <sub>sat</sub> )	DCR	
	100KHz,0.1V				
	(μH)			(mΩ)	
	±20%			Typ.	Max.
HCZH-2918HT-150-M	15.0	28.0	21.9	2.45	2.80

- All test data is referenced to 25°C ambient.
- I<sub>rms</sub>:DC current(A) that will cause an approximate ΔT of 40°C.
- I<sub>sat</sub>:DC current(A) that will cause L<sub>o</sub> to drop approximate 30%.
- Operating temperature range: -30°C to 125°C .
- Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.

## Recommended soldering temp. graph:



A	B	C	D	E
260°C	230°C	8-10Sec	150°C	60~240Sec

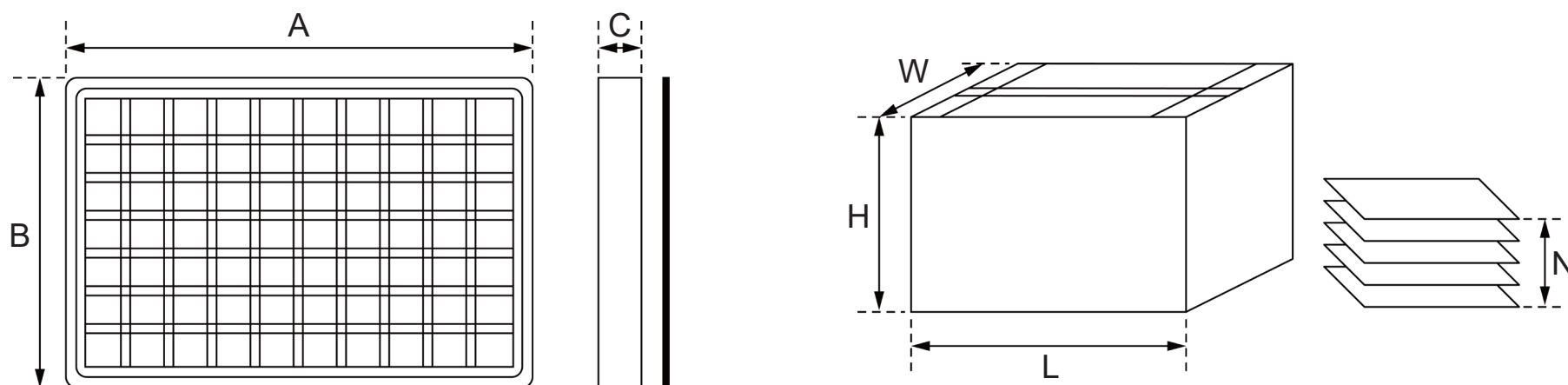
## Mechanical reliability:

TEST	Specification & Requirement	Method Used
Solderability	The surface of terminal/pin tested shall be covered with new solder by 95%	Solder heat proof.
		Preheating: 180±10°C 90 seconds
		Soldering: 255±5°C for 3±1 sec
Shock	Inductance change within ±5% Without mechanical damage	Drop down with 981m/s <sup>2</sup> (100G) shock Attitude upon a rubber block method shock testing machine, 3 tests.
Vibration	Inductance change within ±5% Without mechanical damage	Vibration frequency: 10Hz to 55Hz to 10Hz, 60 seconds cycle Vibration time: 2 hours

## Endurance reliability:

TEST	Specification & Requirement	Method Used
Thermal Shock	Inductance change within ± 5% Without mechanical damage	-25°C, (30 mins) -> room temp. (5 mins) -> 125°C, (30 mins) -> room temp. (5 mins) 100 cycles
Heat Resistance	Inductance change within ± 5% Without mechanical damage	Apply IDC current @ 85°C ambient Duration: 1000 hrs
Humidity Resistance	Inductance change within ± 5% Without mechanical damage	Apply IDC current @ 60°C ambient Humidity: 90~95% Duration: 1000 hrs
Low Temp. Storing	Inductance change within ± 5% Without mechanical damage	Storing Temp. -25±2°C for total 1,000+4/-0 hours
High Temp. Storing	Inductance change within ± 5% Without mechanical damage	Storing Temp. 125±2°C for total 1,000+4/-0 hours

## Packing information:



Unit:(mm)

A	B	C	L	W	H	Plastic Plate (pcs/PET Box)	N layers (per box)	Outer Box (pcs/ Box)
322	202	24	340	215	220	35	6	210