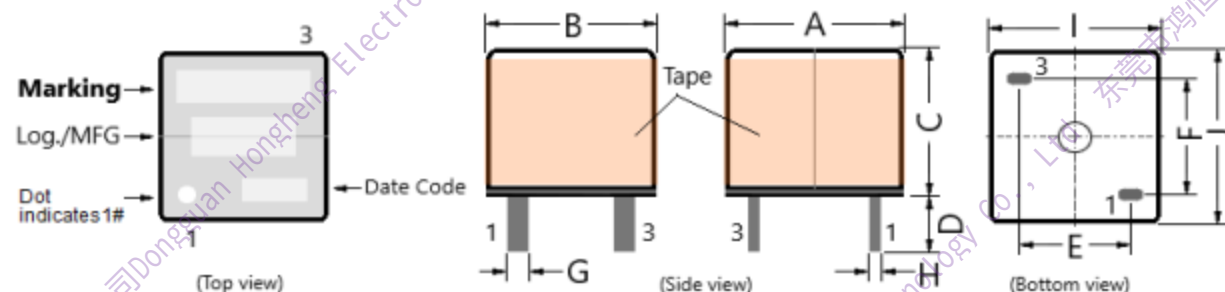
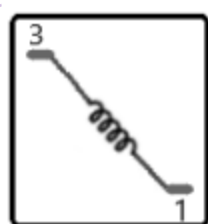


Features:

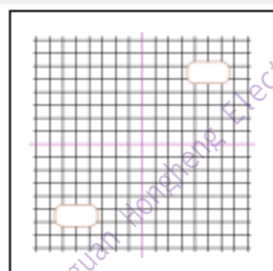
- Patent number(专利号)202423042496.7, 202411810896.X
- Full magnetic shielded type designed for the applications of very huge current (Isat 22~56A, Irms 31~53A) power inductors with very wide operation frequency, low DCR(0.76~4.3mohm), and mini-size(L*W*H=16.2*15.9*14.0).
- Very low power loss ferrite core used, wide operation frequency from 10kHz up to 500kHz.
- 250Vrms, one minutes isolation between Coils and Ferrite Core.
- Magnetic shielded structure, excellent resistance to electro-magnetic interference(EMI).
- Tube loading, long-distance and export overseas transportation are very safe and reliable.
- Operating temperature range: -40°C to +155°C (Including coil temperature rise due to self-generated heat).
- Storage temperature range: -20°C to +85°C.
- RoHS Compliant.

Appearance dimensions (mm/inch):

Inner connection (Bottom view):



Recommend land pattern for Pin-holes



	mm	inch
A	16.2±0.3	0.638±0.012
B	15.9±0.3	0.626±0.012
C	14.3 Max.	0.563 Max.
D	3.5±0.3	0.138±0.012
E	10.0±0.5	0.394±0.020
F	11.0±0.5	0.433±0.020
G	2.0	0.079
H	0.8~1.5	0.031~0.059
I	15.9±0.3	0.626±0.012
J	16.2±0.3	0.638±0.012
N.W.: 12~15 g		(0.423~0.529ounce)

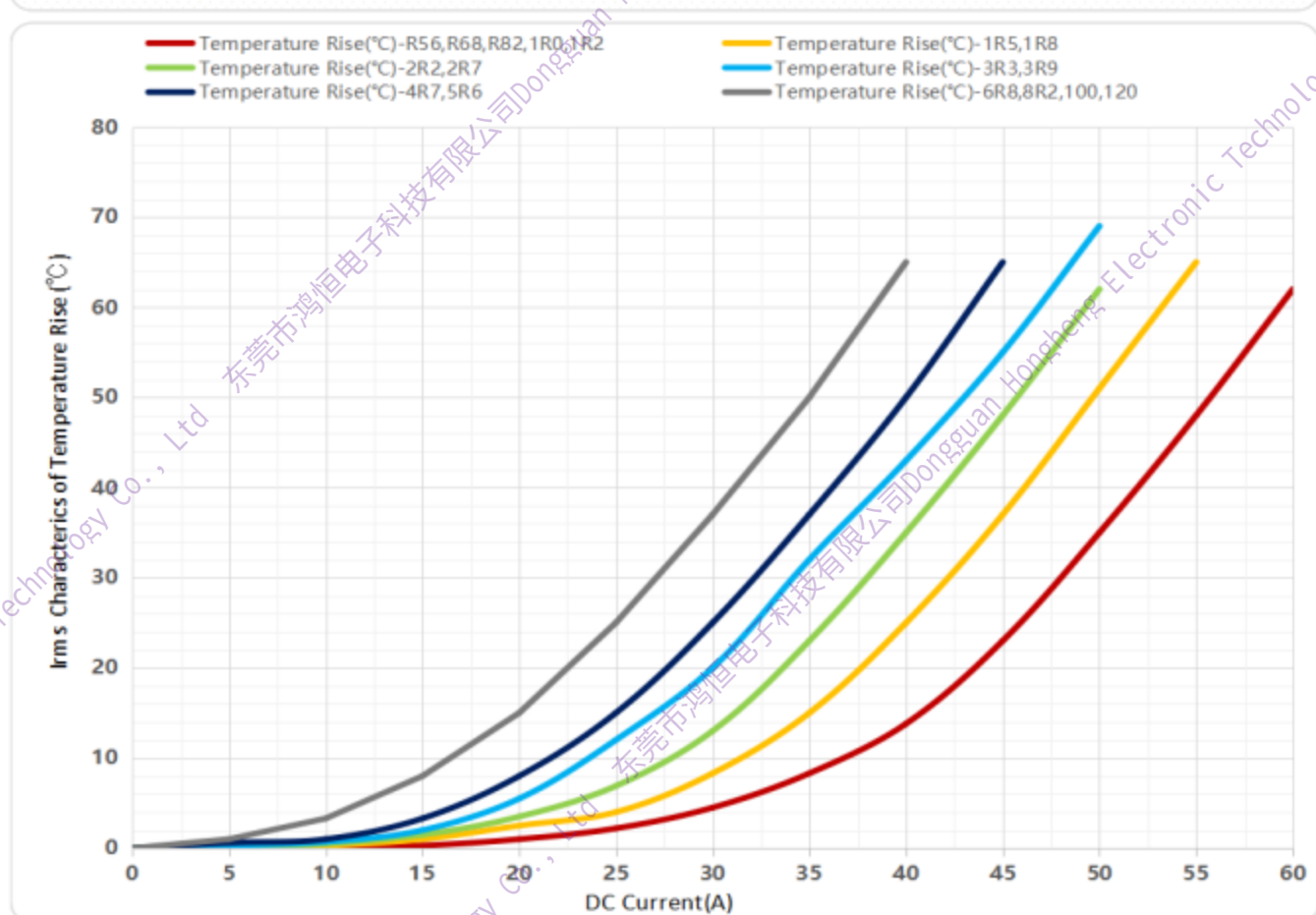
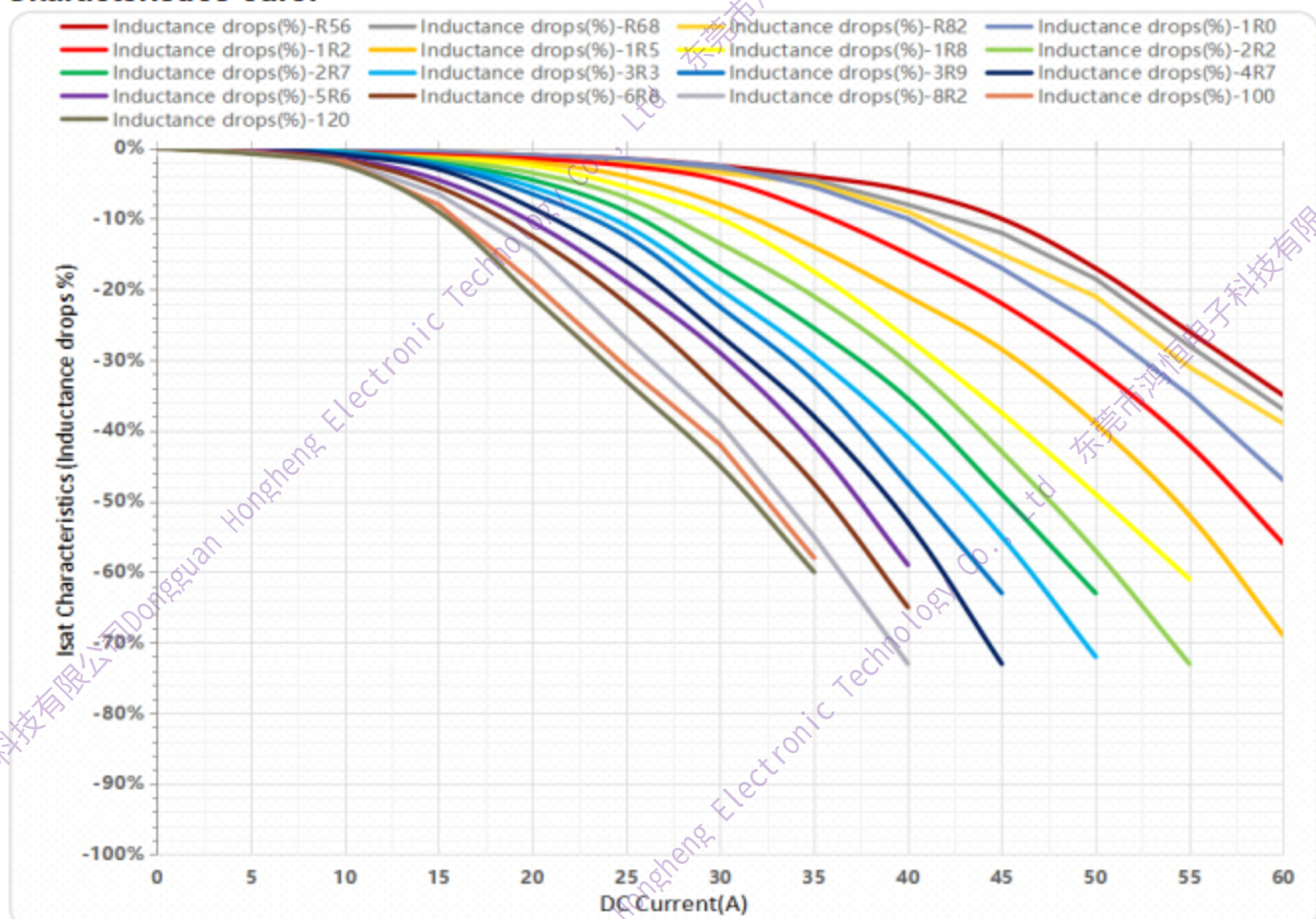
Electronic characteristics :

Cus. Part No. M-Code	Product P/N M-code	Inductance (μH) @ 200kHz/0.1Vrms	DCR (mΩ) @ 25°C	Isat (A) (Typ.)	Irms (A) (Typ.)	Marking	N.W.(g) (Typ.)
	HPI1615SF-R56M	0.56±20%	0.84Max.(0.76Typ.)	56.0	53.0	1615SF-R56	12.4
	HPI1615SF-R68M	0.68±20%	0.84Max.(0.76Typ.)	55.0	53.0	1615SF-R68	12.3
	HPI1615SF-R82M	0.82±20%	0.84Max.(0.76Typ.)	54.0	53.0	1615SF-R82	12.2
	HPI1615SF-1R0M	1.0±20%	0.84Max.(0.76Typ.)	52.0	53.0	1615SF-1R0	12.1
	HPI1615SF-1R2M	1.2±20%	0.84Max.(0.76Typ.)	48.0	53.0	1615SF-1R2	12.0
	HPI1615SF-1R5M	1.5±20%	1.62Max.(1.47Typ.)	46.0	45.0	1615SF-1R5	12.9
	HPI1615SF-1R8M	1.8±20%	1.62Max.(1.47Typ.)	43.0	45.0	1615SF-1R8	13.1
	HPI1615SF-2R2M	2.2±20%	1.85Max.(1.68Typ.)	39.0	41.0	1615SF-2R2	13.7
	HPI1615SF-2R7M	2.7±20%	1.85Max.(1.68Typ.)	37.0	41.0	1615SF-2R7	13.9
	HPI1615SF-3R3K	3.3±10%	2.09Max.(1.90Typ.)	36.0	37.0	1615SF-3R3	14.9
	HPI1615SF-3R9K	3.9±10%	2.09Max.(1.90Typ.)	34.0	37.0	1615SF-3R9	14.7
	HPI1615SF-4R7K	4.7±10%	2.96Max.(2.69Typ.)	32.0	35.0	1615SF-4R7	14.2
	HPI1615SF-5R6K	5.6±10%	2.96Max.(2.69Typ.)	29.0	35.0	1615SF-5R6	14.4
	HPI1615SF-6R8K	6.8±10%	4.73Max.(4.30Typ.)	26.0	31.0	1615SF-6R8	14.6
	HPI1615SF-8R2K	8.2±10%	4.73Max.(4.30Typ.)	24.0	31.0	1615SF-8R2	14.5
	HPI1615SF-100K	10.0±10%	4.73Max.(4.30Typ.)	23.0	31.0	1615SF-100	14.4
	HPI1615SF-120K	12.0±10%	4.73Max.(4.30Typ.)	22.0	31.0	1615SF-120	14.3

Remarks:

- * All test data is referenced to 25°C ambient temperature.
- * Test equipment: VC4092B, TH2516B, HP4284/HP4284A, HP4285 or equivalent.
- * Isat: DC current at which the inductance drops 30% from its initial value without current.
- * Irms: DC current that causes the temperature rise (ΔT=40°C) from 25°C.

Characteristics cure:



General characteristics:

No.	Item	Specification	Test method
1	Storage temperature range	-20°C ~ 85°C	
2	Operation temperature range	-40°C ~ 155°C (Including coils's temperature rise)	
3	External appearance	No external defect can be found by visual inspection	
4	Solderability test	90% min. of the immersed areas should be covered by new solder (Sn-0.3Ag-0.5Cu)	Terminals are immersed in flux for 5 seconds, then dipped in melting solder at 245 ± 5°C for 5 ± 0.5 seconds. *Flux composition: 25% rosin (JIS-K-5920) + 75% ethanol (JIS-K-8101). *Pre-treatment: PCT: 105°C/100%RH/1.22atm/H.
5	Vibration test	Electronic characteristics shall be satisfied	Vibrating at the frequency varying uniformly from 10Hz to 2000Hz then return to 10Hz in 20 minutes at the acceleration of 5G for 4 hours in each of 3 mutually perpendicular directions.
6	Heat resistance	Appearance: No damage Inductance change from the initial value: within ± 8 %	Temperature: 180 °C ± 2°C Time: 1000 h (+48h, -0h) Then measured after exposure in the room condition for 24±2 hours.
7	Cold resistance		Temperature: - 60 °C ± 2°C Time: 1000 h (+48h, -0h) Then measured after exposure in the room condition for 24±2 hours.
8	Humidity		Temperature: 40 °C ± 2 °C Humidity: 90 % (RH) to 95 % (RH) Time: 1000 h (+48h, -0h) Then measured after exposure in the room condition for 24±2 hours.
9	Temperature cycle (Shock testing)		1 cycle : 1 step : - 40 °C ± 2 °C / 30 min ± 3 min 2 step : Ordinary temp. / 10 min to 15 min 3 step : + 155°C ± 2 °C / 30 min ± 3 min 4 step : Ordinary temp. / 10 min to 15 min Total of 10 cycles Then measured after exposure in the room condition for 24±2 hours.

Packing :

*Packing quantity 包装数量 :

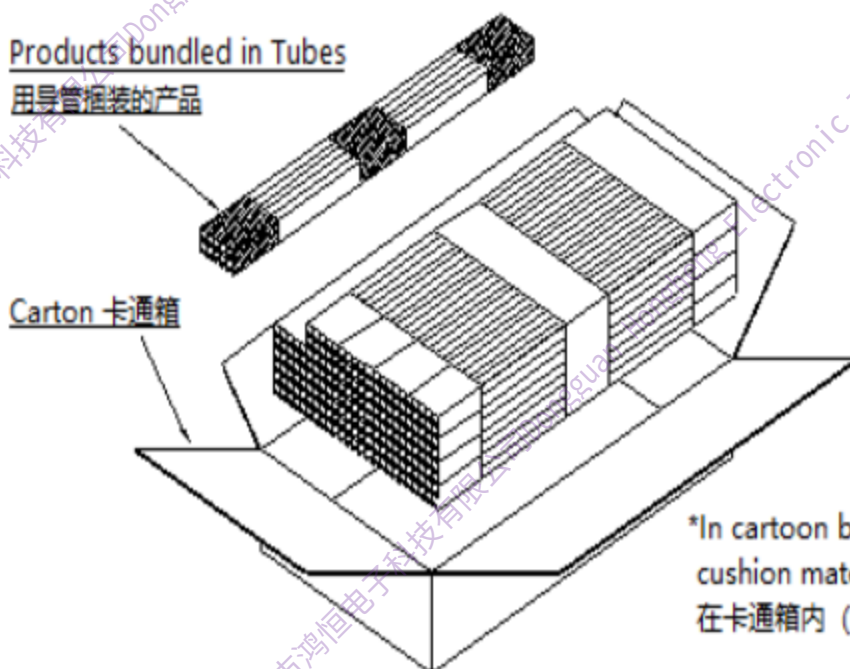
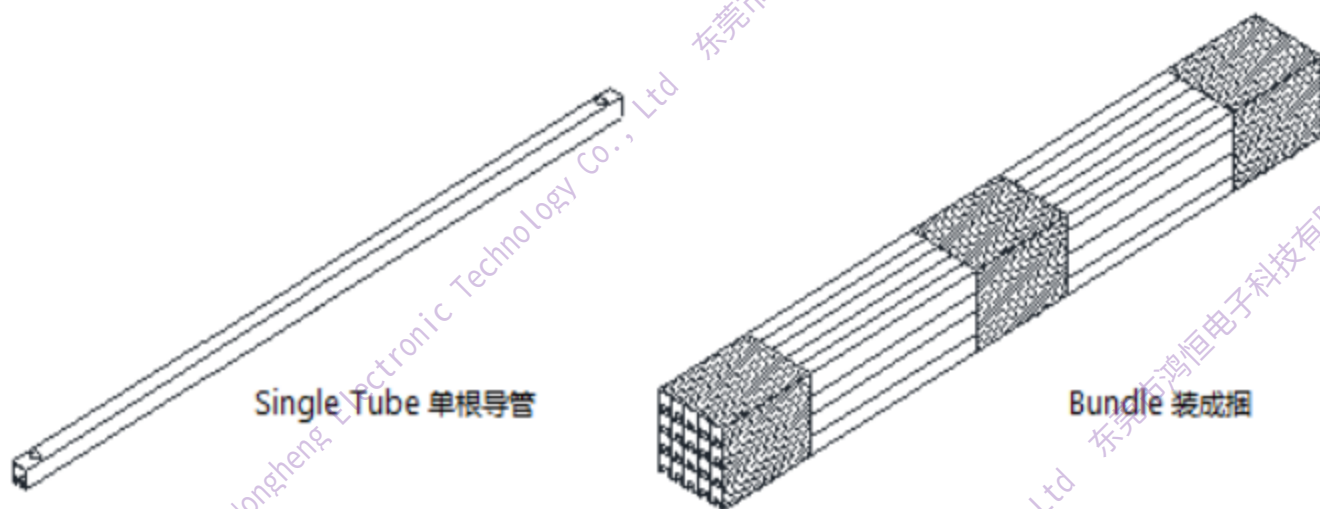
Quantity / Tube 数量 / 导管	Quantity / Inner Box 数量 / 内盒	Quantity / Outside Carton 数量 / 外箱	N.W. / Outside Carton 净重 / 外箱	G.W. / Outside Carton 毛重 / 外箱
25pcs		(25x40)1000pcs	12~15kg	14.5~17.5kg
* Packing Quantity may vary depending on the order volume. 包装数量会因应订单量而异。				

* Label 标签:

All the labels on the reel, inner box and outer box are the same, and the format and content of the label is shown as the right table.
(Production Lot' batch number refers to the week number (YYWW))
外箱、内箱、卷盘标签相同，标签的格式和内容如右表所示。
(生产批号，即 YYWW 周编号)

物料编码 Part No., Code	
规格型号 Model, Description	
数量 Quantity	
批号 Lot No.	

***Schematic diagram of Tube- packaging 导管包装示意图:**



***Carton box dimension 卡通箱外形及尺寸(cm):**

L*W*H: 52*20*10 (cm)

