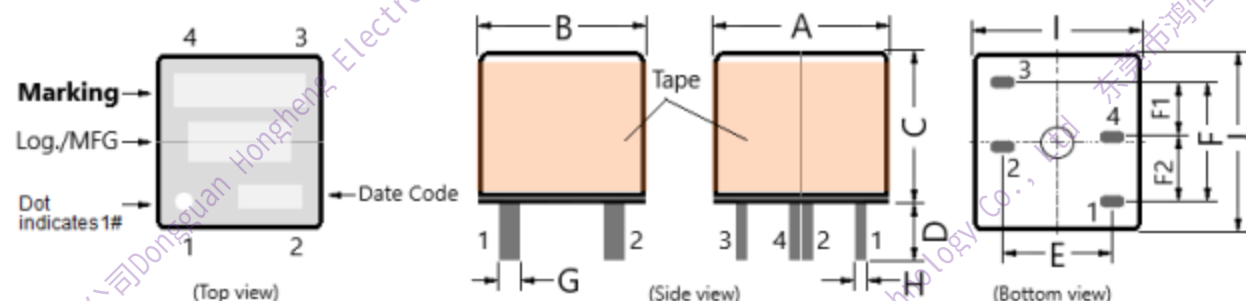
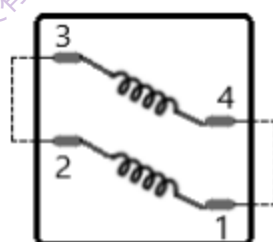


Features:

- Patent number (专利号) 202423042496.7, 202411810896.X
- Full magnetic shielded type designed for the applications of very huge current (Isat 39~64A, Irms 66A) power inductors with very wide operation frequency, low DCR (1.45mohm Max.), and minimized size (L*W*H=17.2*15.7*14.0).
- Very low power loss ferrite core used, wide operation frequency from 10kHz up to 300kHz.
- 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.

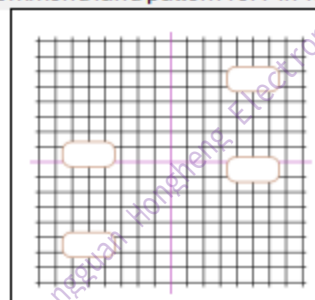
Appearance dimensions (mm/inch):

Inner connection (Bottom view):



* (1, 4), (2, 3) short on PCB.

Recommend land pattern for Pin-holes:



	mm	inch
A	17.2±0.3	0.677±0.012
B	15.7±0.3	0.618±0.012
C	14.3 Max.	0.563Max.
D	3.5±0.3	0.138±0.012
E	10.0±0.5	0.394±0.02
F	11.5±0.5	0.453±0.02
F1	5.0±0.5	0.197±0.02
F2	6.0	0.236
G	2.0	0.079
H	0.8~1.0	0.031~0.039
I	15.7±0.3	0.618±0.012
J	17.2±0.3	0.677±0.012

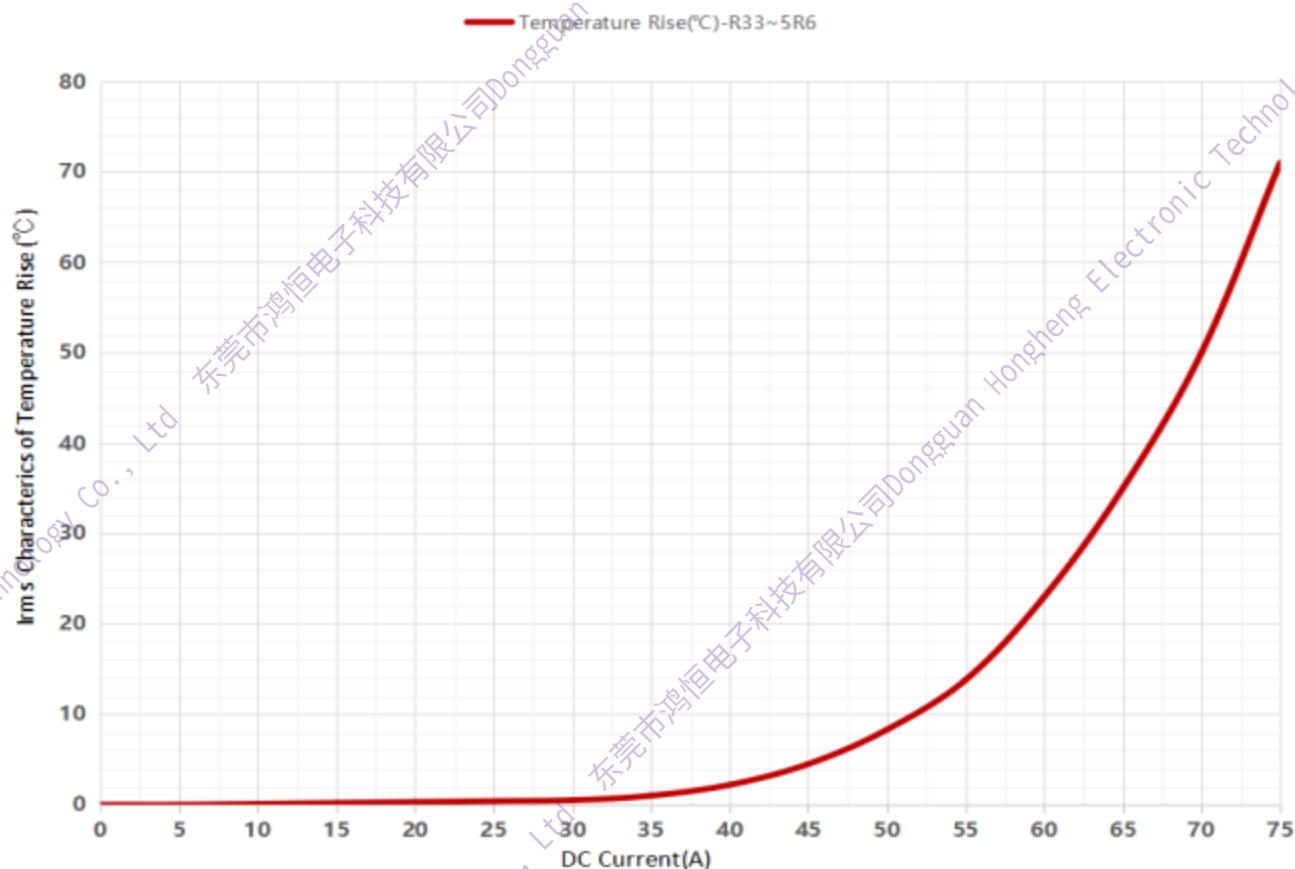
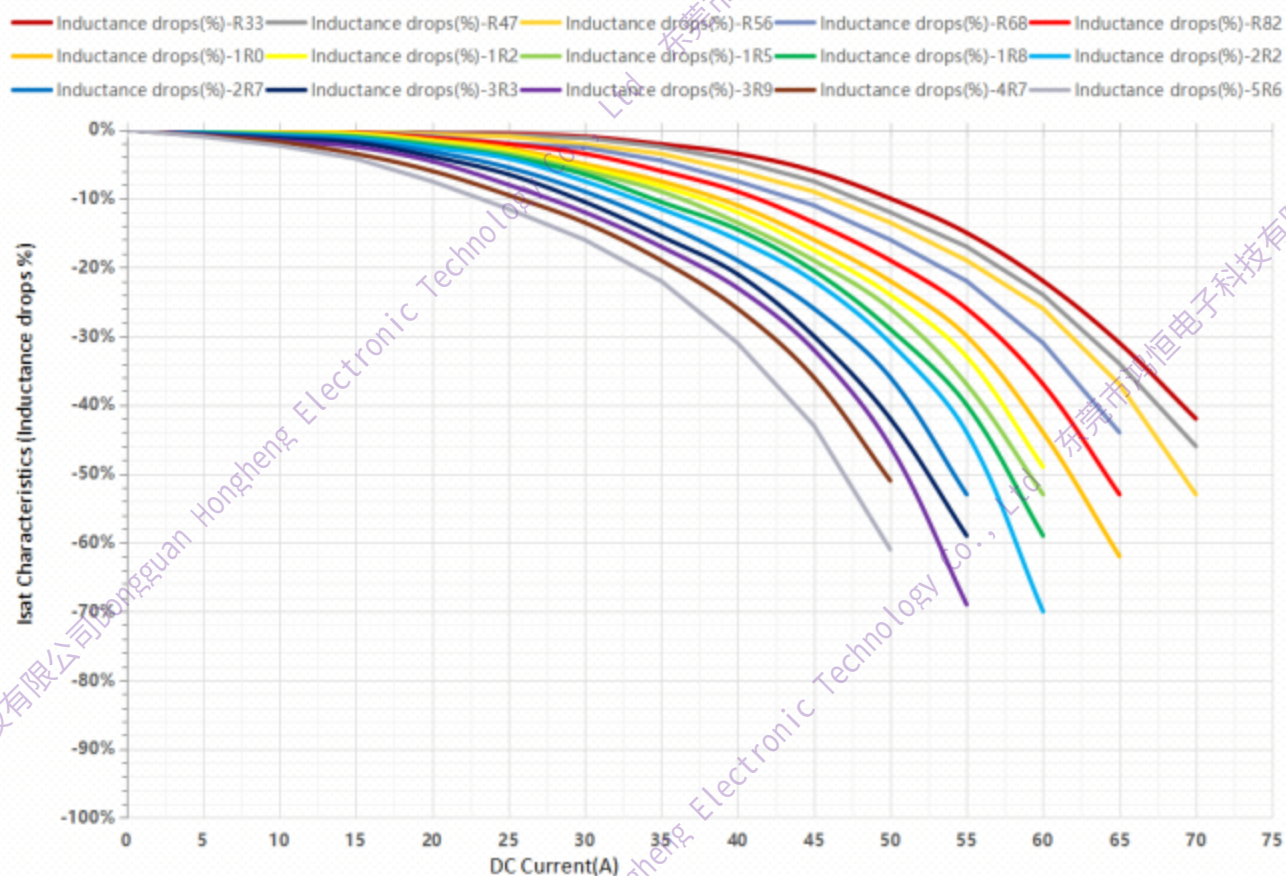
Electronic characteristics :

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
	HPI1716DS-R33M	0.33±20%	1.45Max.	64.0	66.0	1615DS-R33
	HPI1716DS-R47M	0.47±20%	1.45Max.	63.0	66.0	1615DS-R47
	HPI1716DS-R56M	0.56±20%	1.45Max.	62.0	66.0	1615DS-R56
	HPI1716DS-R68M	0.68±20%	1.45Max.	59.0	66.0	1615DS-R68
	HPI1716DS-R82M	0.82±20%	1.45Max.	57.0	66.0	1615DS-R82
	HPI1716DS-1R0M	1.0±20%	1.45Max.	55.0	66.0	1615DS-1R0
	HPI1716DS-1R2M	1.2±20%	1.45Max.	53.0	66.0	1615DS-1R2
	HPI1716DS-1R5M	1.5±20%	1.45Max.	52.0	66.0	1615DS-1R5
	HPI1716DS-1R8M	1.8±20%	1.45Max.	50.0	66.0	1615DS-1R8
	HPI1716DS-2R2M	2.2±20%	1.45Max.	49.0	66.0	1615DS-2R2
	HPI1716DS-2R7M	2.7±20%	1.45Max.	47.0	66.0	1615DS-2R7
	HPI1716DS-3R3K	3.3±20%	1.45Max.	45.0	66.0	1615DS-3R3
	HPI1716DS-3R9K	3.9±20%	1.45Max.	44.0	66.0	1615DS-3R9
	HPI1716DS-4R7K	4.7±20%	1.45Max.	42.0	66.0	1615DS-4R7
	HPI1716DS-5R6K	5.6±20%	1.45Max.	39.0	66.0	1615DS-5R6

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.
- * (1, 4), (2, 3) pin terminals are short during testing.

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 :

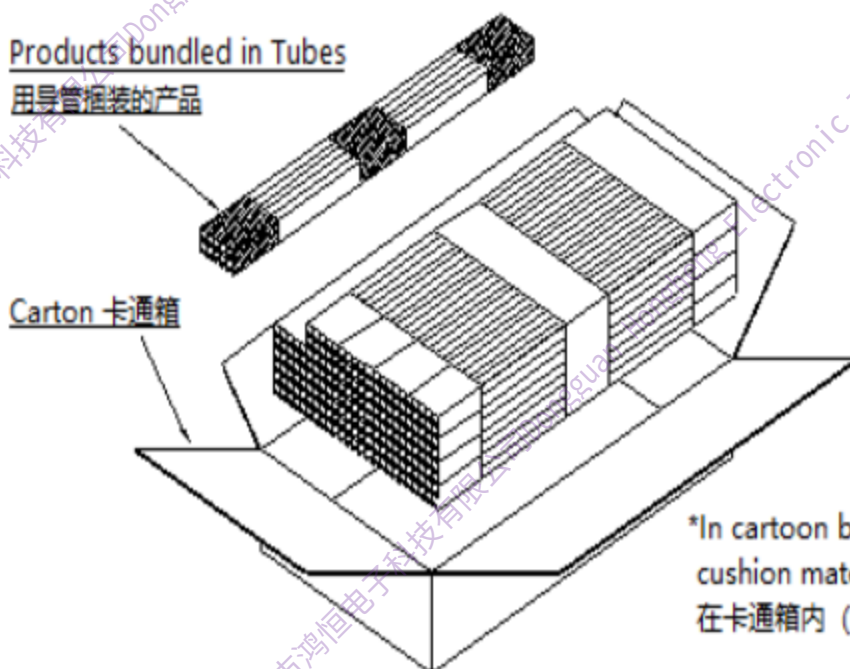
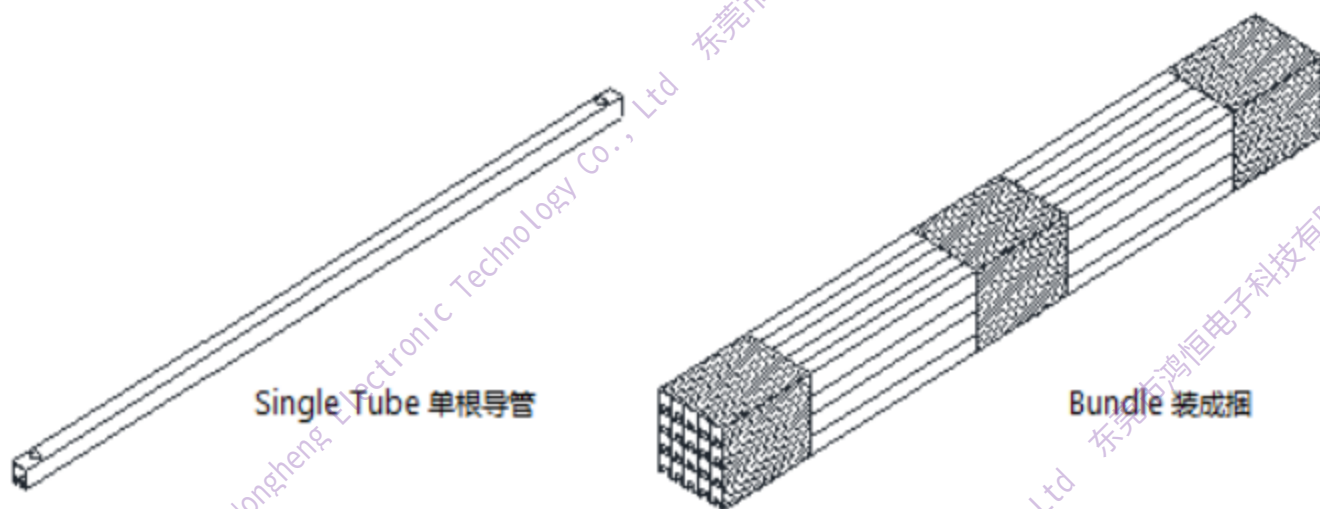
Quantity / Tube 数量 / 导管	Quantity / Inner Box 数量 / 内盒	Quantity / Outside Carton 数量 / 外箱	N.W. / Outside Carton 净重 / 外箱	G.W. / Outside Carton 毛重 / 外箱
25pcs		(25x40)1000pcs	12.5~15.5kg	14.5~18.0kg
* Packing Quantity may vary depending on the order volume. 包装数量会因应订单量而异。				

* 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:**



*In cartoon box (front, back, left, right, up and down), cushion material are placed in.
在卡通箱内 (前后左右上下), 垫放缓冲材

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

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

