

PRODUCT SPECIFICATION

SPEC. NO.

T-0627-133D



1. Scope

This specification applies Ferrite Power Inductance PIS2D18LP-Series to be delivered to user.

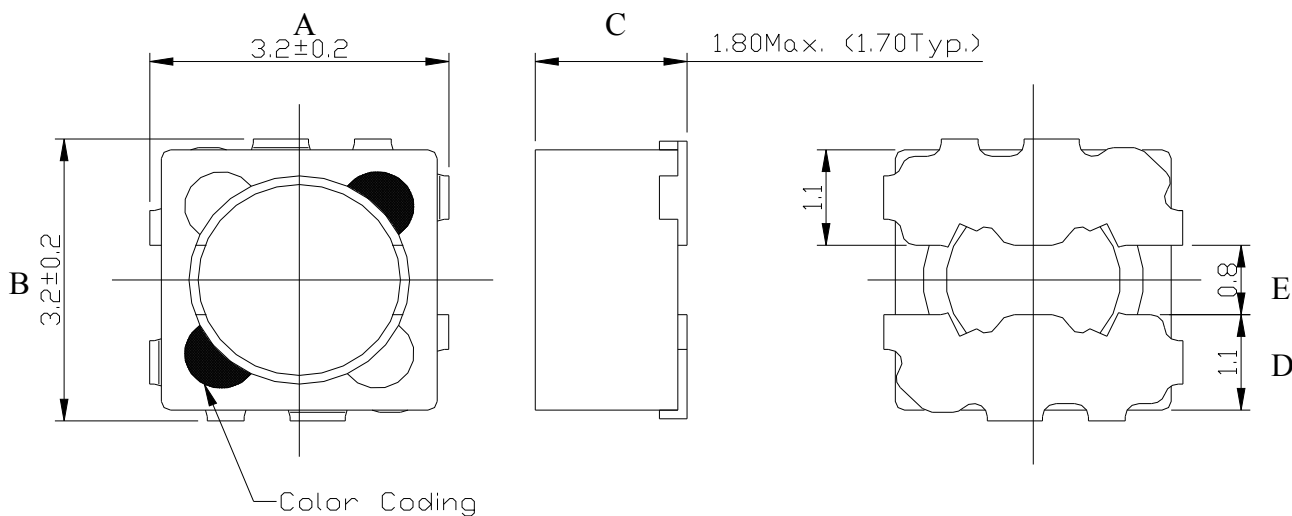
2. Product Identification

PIS 2D18LP - 6R8 □ - T

(1) (2) (3) (4) (5)

- (1) Product name
- (2) Shapes and dimensions
- (3) Inductance
6R8 : 6.8 uH
- (4) Tolerance
M=±20% , N=±30%
- (5) Taping Type

3. Shapes and Dimensions



A:3.2±0.2 mm
 B:3.2±0.2 mm
 C:1.80 Max. (1.70Typ.)mm
 D:1.10 mm
 E:0.80 mm

Drawn by	Checked by	Approved by
Cindy Nov. 26. 2019	Zheny Nov. 26. 2019	Sun Nov. 26. 2019

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4. Electrical Characteristics

Customer Part Number	Our Product Part Number	Inductance (uH)/KHz	Inductance Tolerance	Rdc Typ (Ω)	Idc Typ (mA)		Irms Typ (mA) T ↑ 25°C	Color Coding
					L ↓ 10%	L ↓ 35%		
	PIS2D18LP-1R0□-T	1.0/1	M	0.038	960	1360	1800	Green
			N					
	PIS2D18LP-1R2□-T	1.2/1	M	0.041	940	1220	1760	Blue
			N					
	PIS2D18LP-1R5□-T	1.5/1	M	0.048	900	1140	1700	Violet
			N					
	PIS2D18LP-1R8□-T	1.8/1	M	0.052	840	1040	1680	Gray
			N					
	PIS2D18LP-2R2□-T	2.2/1	M	0.055	840	980	1640	White
			N					
	PIS2D18LP-2R7□-T	2.7/1	M	0.060	680	900	1460	Green
			N					
	PIS2D18LP-3R3□-T	3.3/1	M	0.078	600	800	1400	Blue
			N					
	PIS2D18LP-3R9□-T	3.9/1	M	0.090	580	800	1220	Violet
			N					
	PIS2D18LP-4R7□-T	4.7/1	M	0.099	540	740	1200	Gray
			N					
	PIS2D18LP-5R6□-T	5.6/1	M	0.110	500	660	1120	White
			N					
	PIS2D18LP-6R8□-T	6.8/1	M	0.120	480	600	1060	Green
			N					
	PIS2D18LP-8R2□-T	8.2/1	M	0.168	400	540	900	Blue
			N					
	PIS2D18LP-100□-T	10/1	M	0.190	360	460	880	Violet
	PIS2D18LP-120□-T	12/1	M	0.252	320	460	800	Gray
	PIS2D18LP-150□-T	15/1	M	0.285	300	400	720	White
	PIS2D18LP-180□-T	18/1	M	0.350	280	380	660	Green

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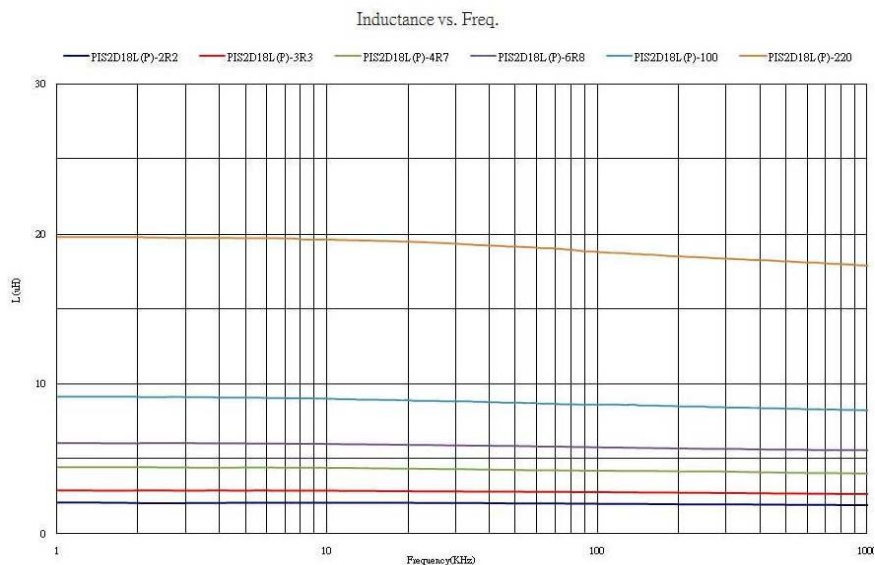
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					L ↓ 10%	L ↓ 35%		
	PIS2D18LP-220□-T	22/1	M	0.440	240	320	500	Blue
	PIS2D18LP-270□-T	27/1	M	0.490	220	280	420	Violet
	PIS2D18LP-330□-T	33/1	M	0.780	200	260	380	Gray
	PIS2D18LP-470□-T	47/1	M	0.880	170	220	300	Black
	PIS2D18LP-471□-T	470/1	M	12.20	50	70	120	Gray
			N					

- When ordering, please specify tolerance and packaging codes. Ex: PIS2D18LP-100M-T
Tolerance : M=20% , N = 30%
Packaging : Clear tape and reel { standard }.
- L, Idc : HP 4284A Precision LCR Meter, 1KHz with 1V.
- Rdc :Chroma Milliohmmeter 16502, or equivalent. (Typ: ±30% tolerance)
- Idc for Inductance drop 10% or 35% from its value without current.
- Irms for a 25°C rise above 25°C ambient.
- Operating temperature range from -25°C to 105°C.



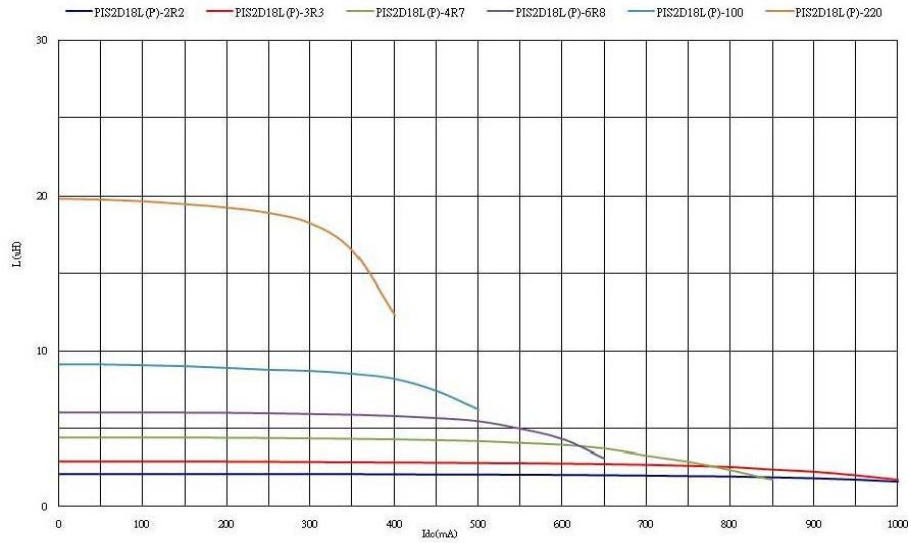
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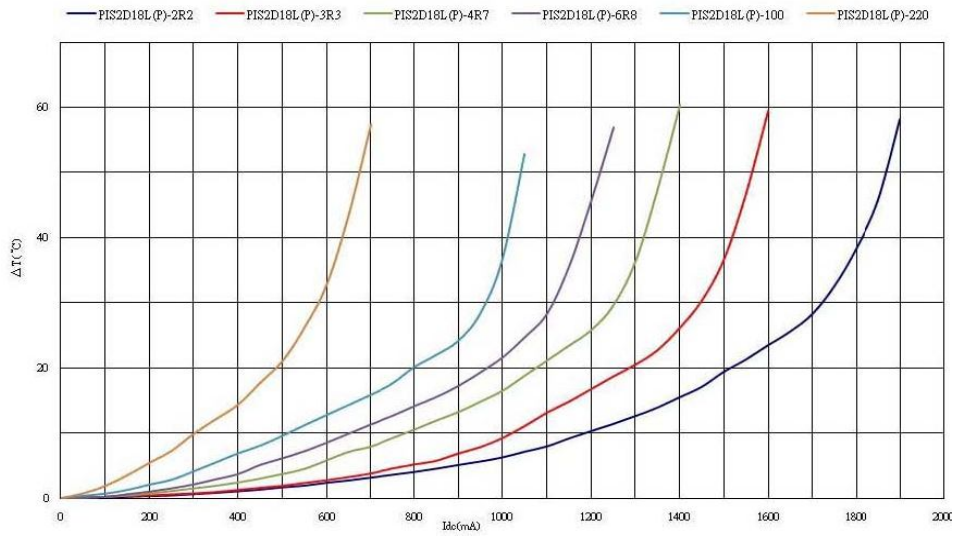
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Inductance vs Isat



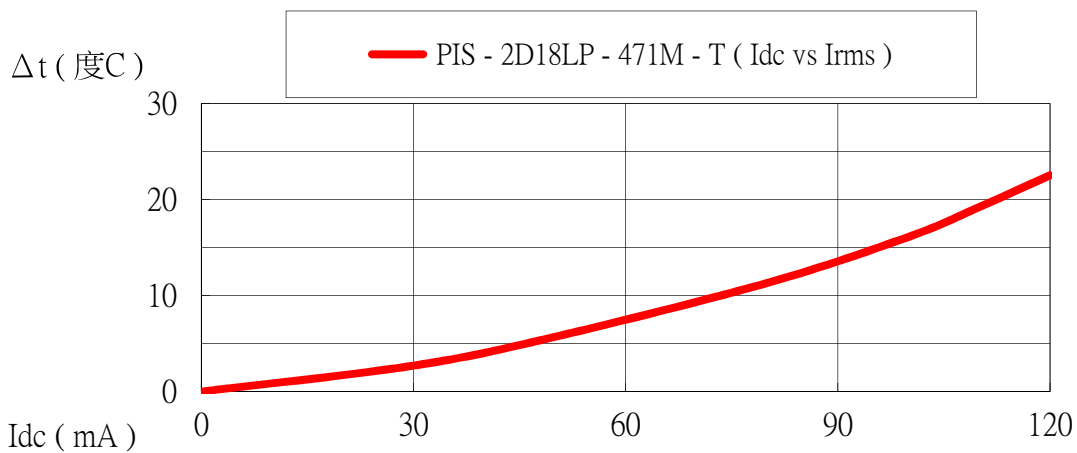
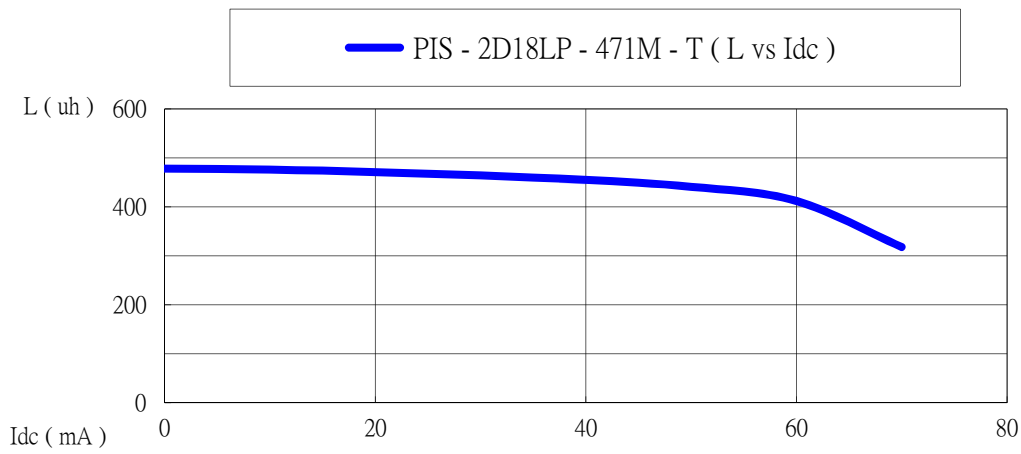
Temperature rising vs. Irms



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5. Material list

Item	Material
Core	Ferrite core
Wire	Copper wire
Epoxy	Epoxy
Base	Copper
Terminal	Cu / Ni / Sn