

SERIES: F2D4-1265 | DESCRIPTION: HIGH CURRENT POWER INDUCTORS

FEATURES

- Composite core
- Moisture Sensitivity: Level (MSL) 1
- Flat wire coil designed for minimal losses at high frequency
- Soft saturation makes them perfect for VDR/VRM applications
- Operating temperature -55°C to 150°C



MODEL	Inductance (Lo)	Tolerance	DC Resistance (DCR)	Saturation Current (Isat)	Temperature Rise Current (Irms)
	typ [μH]	typ [± %]	max [mΩ]	typ [A]	typ [A]
F2D4-1265-1R0M	1.00	20	1.75	47.0	24.0
F2D4-1265-1R5M	1.50	20	2.65	38.0	20.0
F2D4-1265-2R2M	2.20	20	3.50	30.0	17.0
F2D4-1265-2R6M	2.60	20	4.60	28.0	15.0
F2D4-1265-3R3M	3.30	20	5.90	25.0	13.0
F2D4-1265-4R7M	4.70	20	7.10	21.0	12.0
F2D4-1265-5R6M	5.60	20	9.40	19.0	11.0
F2D4-1265-6R8M	6.80	20	10.6	17.0	9.50
F2D4-1265-8R0M	8.00	20	12.5	15.8	8.50

Notes:

1. Referenced ambient temperature 25°C
2. Test Condition: 100 kHz, 0.5 Vrms
3. Saturation Current - Isat: DC current (A) that will cause L0 to drop approximately 20%
Temperature Rise Current - Irms: DC current (A) that will cause an approximate ΔT of 40°C
4. Operating temperature range includes self-temperature rise

PART NUMBER KEY

F2D4 - 1265 - XXX X

Type / Product Series

F2D4-1265 = High Current Power Inductors

Inductance Tolerance

M = ±20%

Inductance *

1R0 = 1.0 μH

* Note: Inductance expressed by three figures. The unit is micro henry (μH). The first and second figures are significant digits, the third figure expresses the number of zeros which follow the two figures. If there is a decimal point, it is expressed by the capital letter "R" (3R8 = 3.8 μH). In that case, all figures are significant digits.

SAFETY AND COMPLIANCE

Parameter	Compliant
RoHS	Compliance with ROHS, Reach compliant and Halogen Free

ENVIROMENTAL

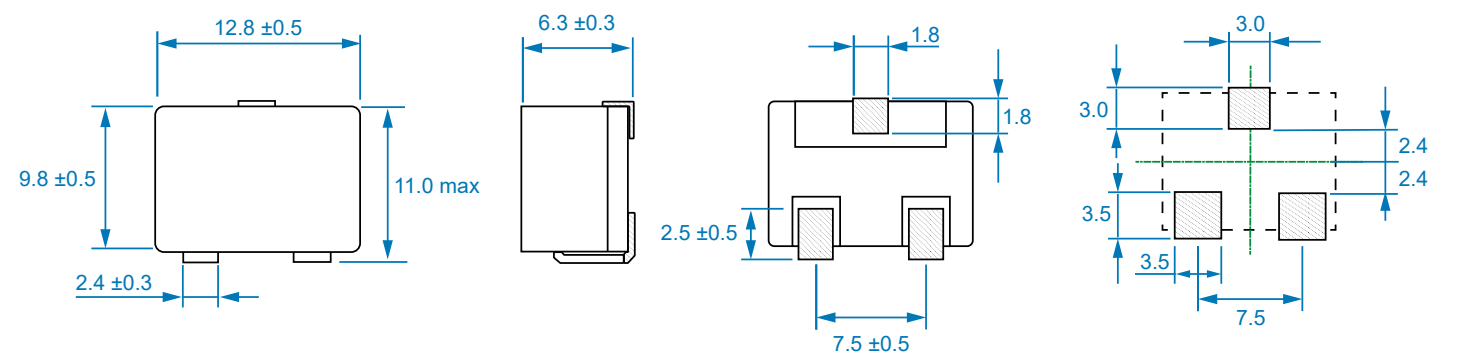
Parameter	Conditions	Min	Typ	Max	Units
Operating temperature	Including coils self-temeprature rise	-55		150	°C
Storage temperature		-55		150	°C

MECHANICAL

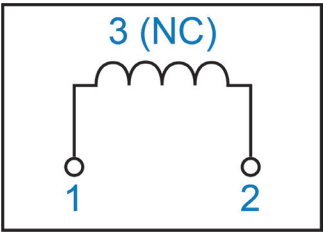
Parameter	Conditions	Min	Typ	Max	Units
Core material	Composite				
Dimensions	12.8 x 11.0 x 6.3				mm
Weight	3.91				g

MECHANICAL DRAWING

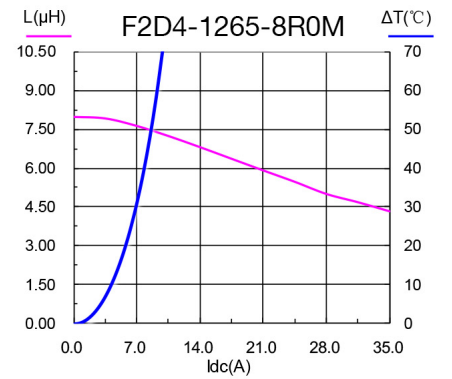
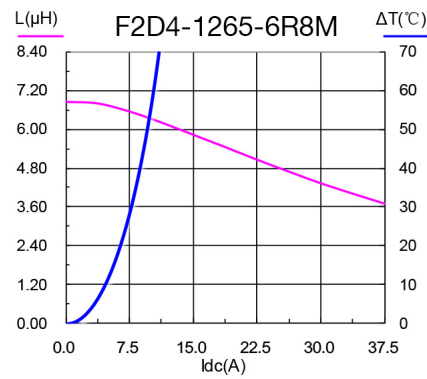
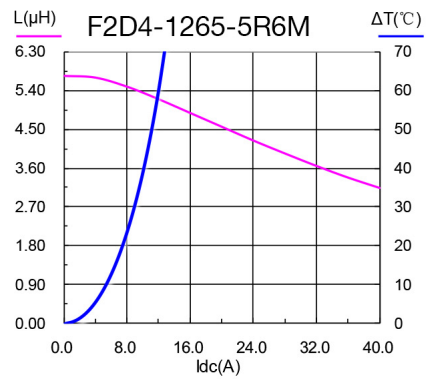
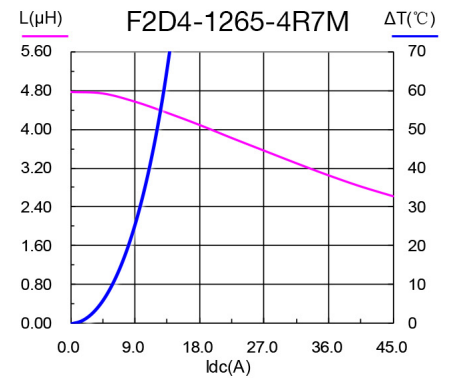
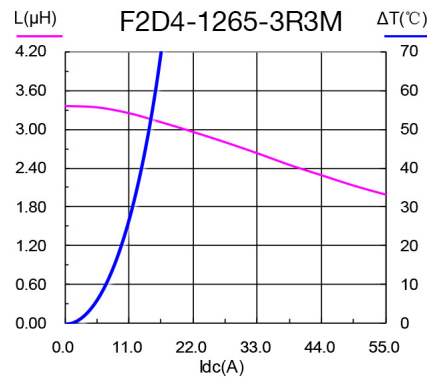
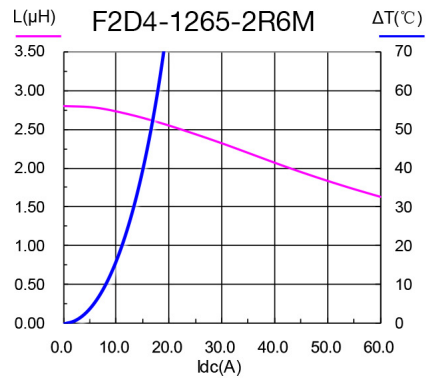
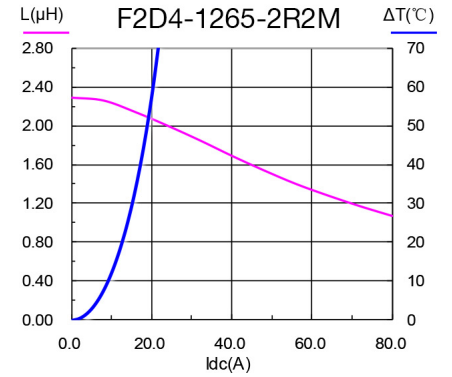
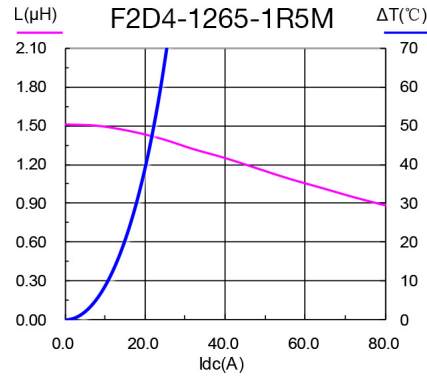
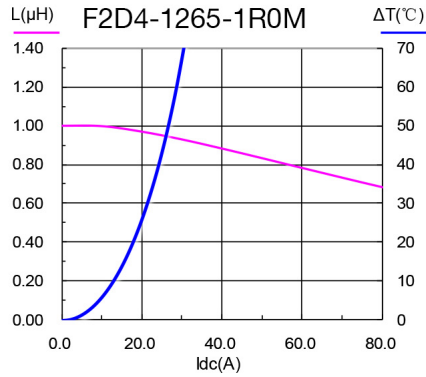
Units: mm



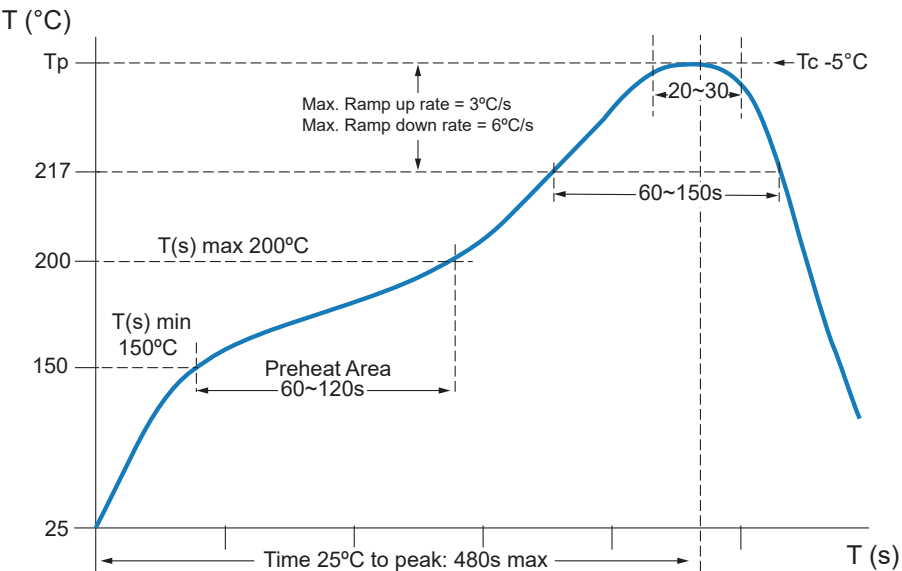
ELECTRICAL DIAGRAM



PERFORMANCE CURVES



REFLOW SOLDERING TEMPERATURE CURVE

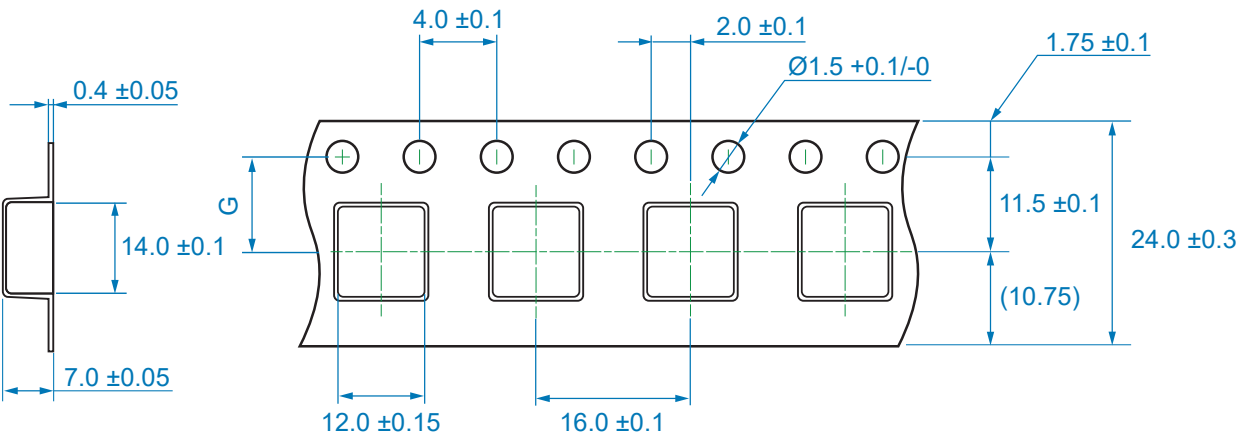


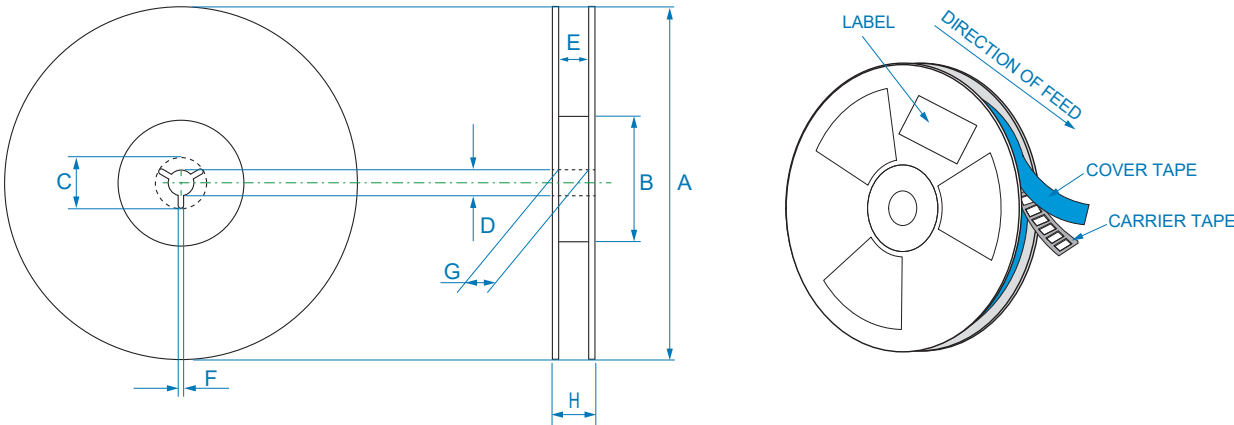
CLASSIFICATION OF PEAK PACKAGE BODY TEMPERATURE

	Package Thickness	Package Volume		
		< 350 mm ³	350 ~ 2000 mm ³	> 2000 mm ³
PB-Free Assembly	< 1.6 mm	260 $^{\circ}\text{C}$	260 $^{\circ}\text{C}$	260 $^{\circ}\text{C}$
	1.6 ~ 2.5 mm	260 $^{\circ}\text{C}$	250 $^{\circ}\text{C}$	245 $^{\circ}\text{C}$
	≥ 2.5 mm	250 $^{\circ}\text{C}$	245 $^{\circ}\text{C}$	245 $^{\circ}\text{C}$

QUANTITY PER REEL & PACKING INFORMATION

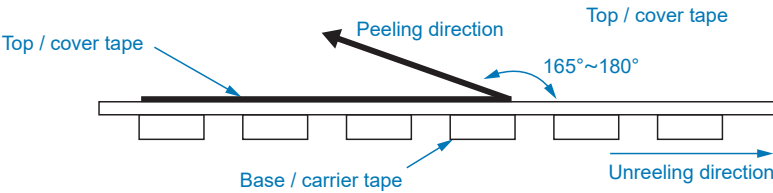
Units: mm





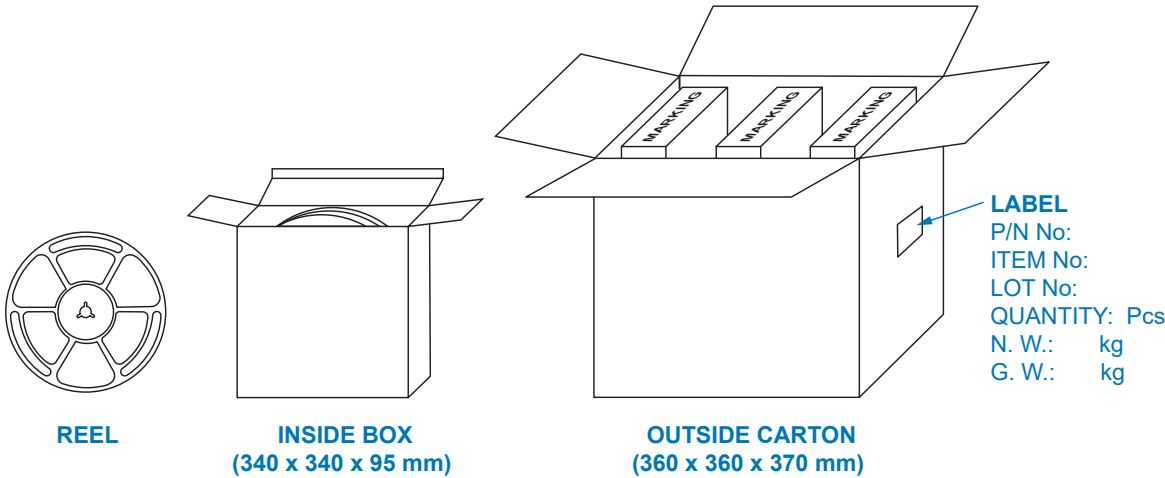
REEL DIMENSIONS (mm)

Product Series	A	B	C	D	E	F	G	H
F2D4-1265	330 ± 2.0	100 min	21.0 ± 0.8	13.0 ± 0.5	23.90 min	2.0 ± 0.5	24.4 +2.0/-0	30.40 max



Peel-off Force

The peel-off speed shall be about 300 ±10 mm/min.
The peel-off force of top cover tape shall be between 10.1 to 1.3 N.



QUANTITY PER PACKAGE

Product Series	Pcs per Reel	Pcs per Inside Box	Pcs per Outside Carton
F2D4-1265	400	800	2400

Storage Conditions

- a) Product in packing storage condition: temperature 5 ~ 40 °C, RH ≤ 70 %.
- b) Avoid storing in environments prone to high temperatures, excessive humidity, dust, or corrosion.

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[CDRH8D43RT125NP-680MC](#) [CDRH70D45BT150NP-101MC](#) [CDRH10D68RT125NP-102PC](#) [CD43NP-1R0MC](#) [CDRH60D45BT150NP-331MC](#) [CDRH104NP-221MC](#) [CDRH5D28RBH125NP-100MC](#) [CDRH6D38T125NP-330PC](#) [CDRH60D45BT150NP-221MC](#) [CDRR126NP-331MC](#) [CDRH60D45BT150NP-4R7NC](#) [CDRH124NP-331MC](#) [CD75T125NP-221KC](#) [CDRH70D45BT150NP-471MC](#) [DEP1016NP-330PB](#)
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