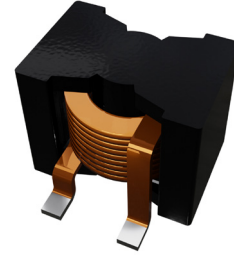


SERIES: F2D2-2016 | DESCRIPTION: HIGH CURRENT POWER INDUCTORS

FEATURES

- Ferrite core
- Moisture Sensitivity: Level (MSL) 1
- High inductance, high current, low magnetic loss, low ESR, small parasitic capacitance
- Operating temperature -40°C to 125°C



MODEL	Inductance (Lo)	Tolerance	DC Resistance (DCR)	Saturation Current (Isat)	Temperature Rise Current (Irms)
	typ [μH]	typ [± %]	max [mΩ]	typ [A]	typ [A]
F2D2-2016-4R7MC	4.70	20	4.00	42.0	21.0
F2D2-2016-6R8MC	6.80	20	4.30	25.0	20.0
F2D2-2016-8R2MC	8.20	20	4.30	25.0	20.0
F2D2-2016-100MC	10.0	20	6.30	24.0	16.0
F2D2-2016-220MC	22.0	20	6.30	10.0	16.0
F2D2-2016-330MC	33.0	20	15.0	9.00	12.0
F2D2-2016-470MC	47.0	20	15.0	6.50	12.0

Notes:

- Referenced ambient temperature 25°C
- Test Condition: 100 kHz, 0.1 Vrms
- Saturation Current - Isat (typ): DC current (A) that will cause L0 to drop approximately 20%
Isat (max): DC current (A) that will cause L0 to drop 20% max
Temperature Rise Current - Irms (typ): DC current (A) that will cause an approximate ΔT of 40°C
Irms (max): DC current (A) that will cause an approximate ΔT of 40°C max
- Operating temperature range includes self-temperature rise

PART NUMBER KEY

F2D2 - 2016 - XXX XX

Type / Product Series

F2D2-2016 = High Current Power Inductors

Inductance *

1R0 = 1.0 μH

C = Coating

Inductance Tolerance

M = ±20%

* 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

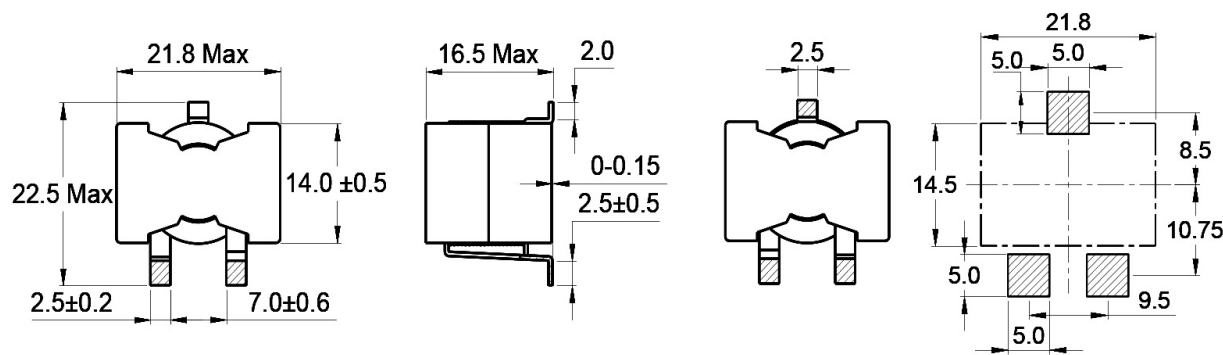
Parameter	Conditions	Min	Typ	Max	Units
Operating temperature	Including coils self-temeprature rise	-40		125	°C
Storage temperature		-40		125	°C

MECHANICAL

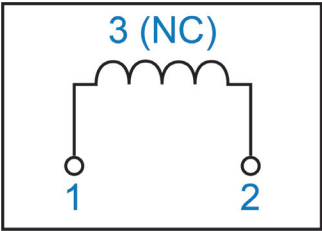
Parameter	Conditions	Min	Typ	Max	Units
Core material	Ferrite				
Dimensions	21.8 x 22.5 x 16.5				mm
Weight	18.92				g

MECHANICAL DRAWING

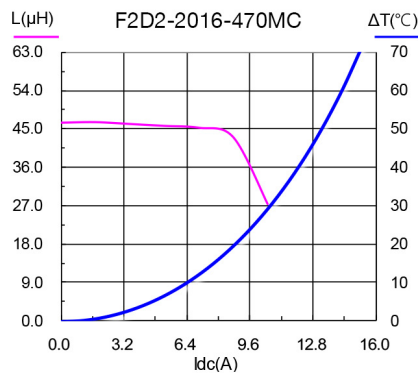
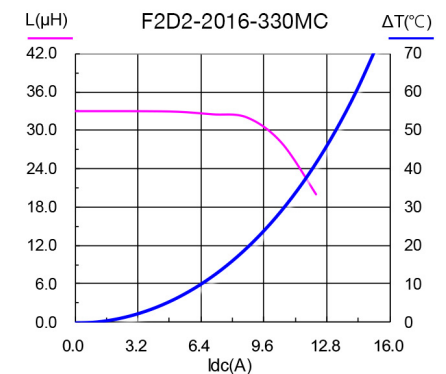
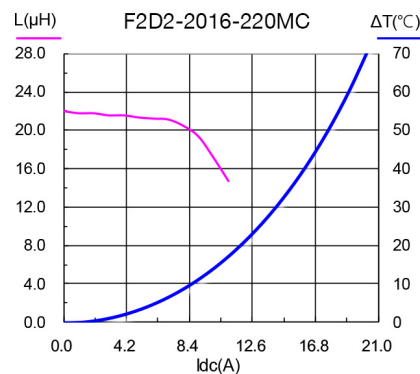
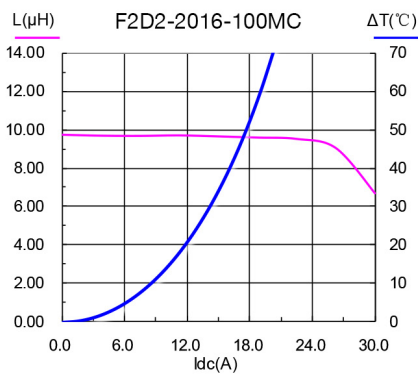
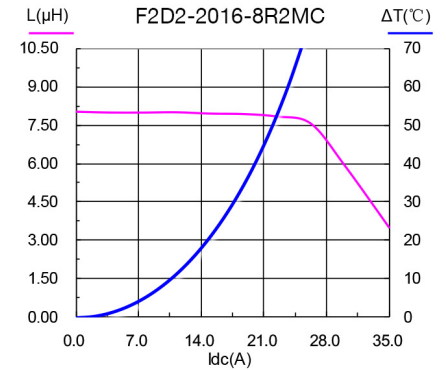
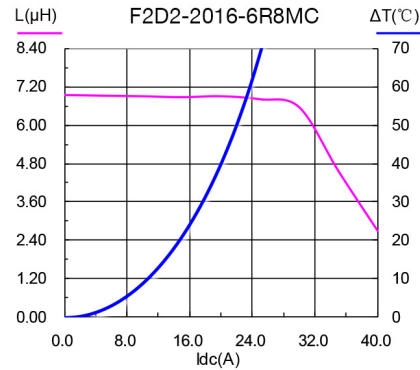
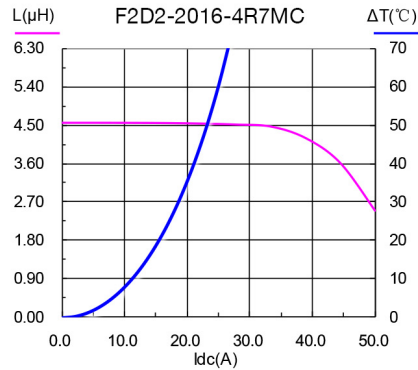
Units: mm



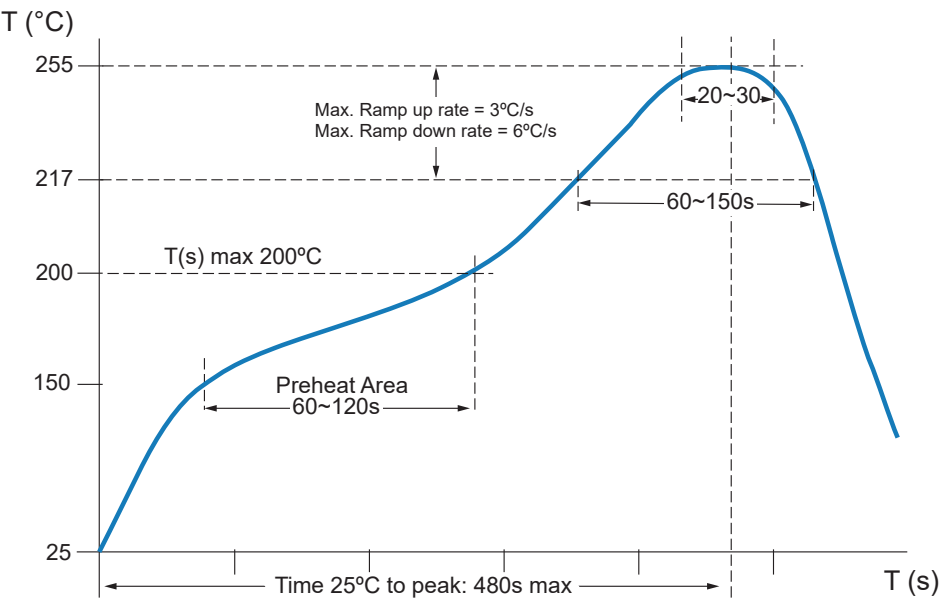
ELECTRICAL DIAGRAM



PERFORMANCE CURVES



REFLOW SOLDERING TEMPERATURE CURVE

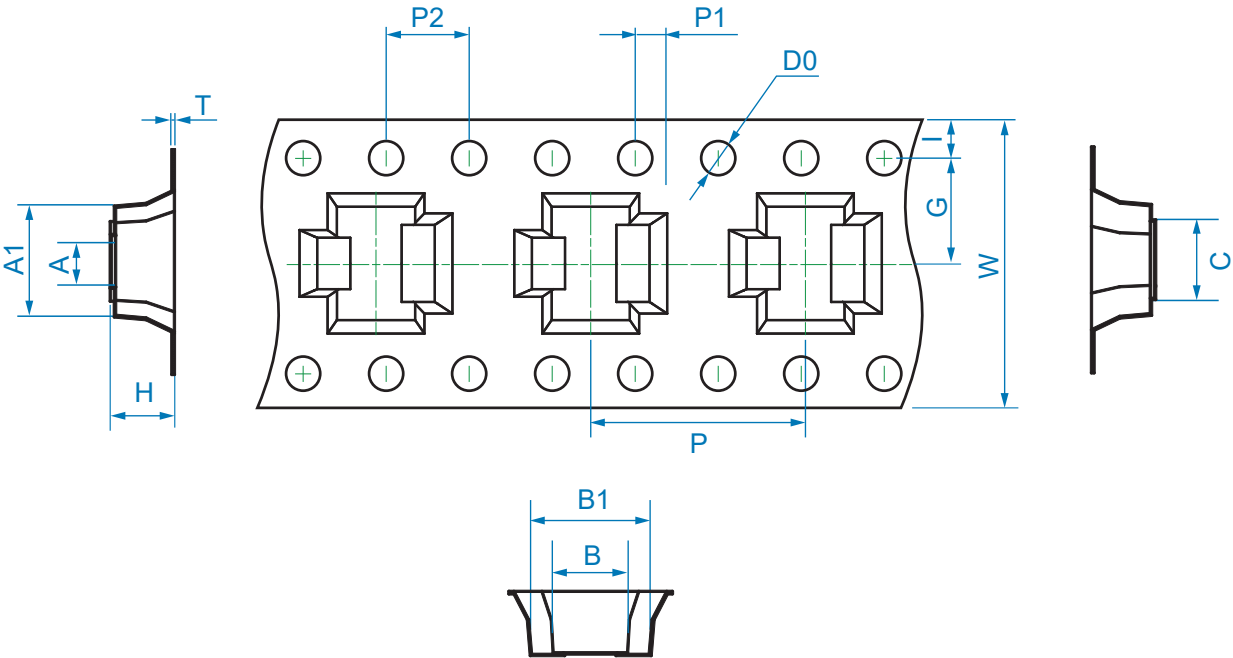


CLASSIFICATION OF PEAK PACKAGE BODY TEMPERATURE

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

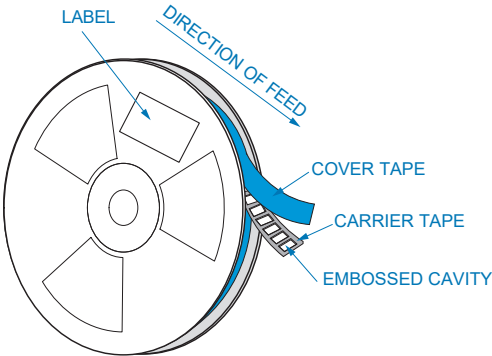
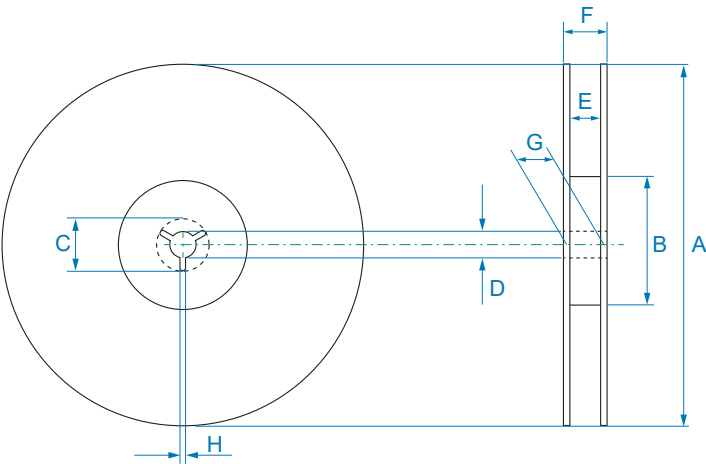
QUANTITY PER REEL & PACKING INFORMATION

Units: mm



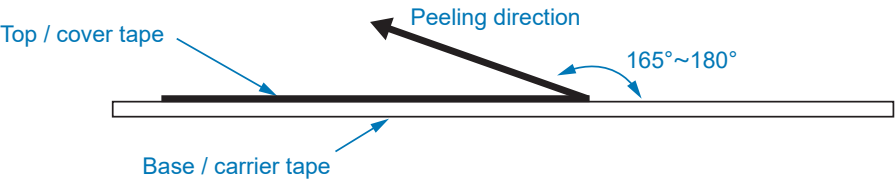
TAPE DIMENSIONS (mm)

Product Series	A	A1	B	B1	C	H	T
F2D2-2016	10.0 ± 0.1	21.0 ± 0.1	14.5 ± 0.1	22.0 ± 0.1	15.0 ± 0.1	17.7 ± 0.1	0.5 ± 0.05
	P	P1	P2	D0	G	I	W
	32.0 ± 0.1	2.0 ± 0.1	4.0 ± 0.1	1.5 +0.1/-0.0	20.2 ± 0.1	1.75 ± 0.1	44.0 ± 0.3



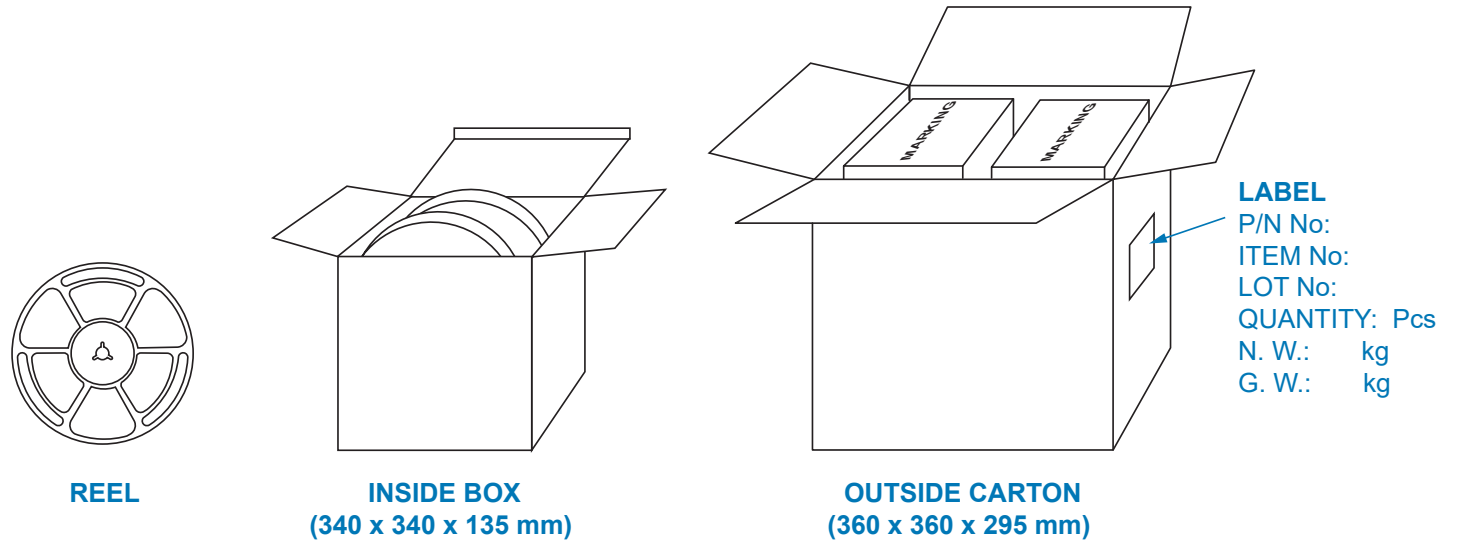
REEL DIMENSIONS (mm)

Product Series	A	B	C	D	E	F	G	H
F2D2-2016	330 ± 2.0	100 min	21.0 ± 0.8	13.0 ± 0.5	43.9 min	50.4 max	44.4 -2.0/-0.0	2.0 ± 0.5



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 0.1 to 1.3 N.



QUANTITY PER PACKAGE

Product Series	Pcs per Reel	Pcs per Inside Box	Pcs per Outside Carton
F2D2-2016	100	200	400

Storage Conditions

- a) Product in packing storage condition: temperature 5 ~ 40 °C, RH ≤ 70 %.
- b) It is recommended to use inductors within 12 months of delivery for optimal performance.
- c) Avoid storing in environments prone to high temperatures, excessive humidity, dust, or corrosion.

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[CDRH70D45BT150NP-101MC](#) [CDRH10D68RT125NP-102PC](#) [CD43NP-1R0MC](#) [CDRH60D45BT150NP-331MC](#) [CDRH104NP-221MC](#)
[CDRH5D28RBH125NP-100MC](#) [CDRH6D38T125NP-330PC](#) [CDRH60D45BT150NP-221MC](#) [CDRR126NP-331MC](#) [CDRH60D45BT150NP-4R7NC](#) [CDRH124NP-331MC](#) [DEP1016NP-330PB](#) [CDRH6D38T125NP-3R9NC](#) [CDRH127L125NP-680MC](#) [CD43T125NP-680KC](#)
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