



SERIES: F1C2-0808 | DESCRIPTION: HIGH POWER SHIELDED SMD INDUCTORS

FEATURES

- Magnetically shielded construction
- Unique metal dust core providing improved Isat
- Low DCR resulting in lower power losses



MODEL	Inductance (L0)	Tolerance	DC Resistance (DCR)	Saturation Current (Isat)		Temperature Rise Current (Irms)		E
	[μ H]	[$\pm$ %]	max [m Ω]	max [A]	typ [A]	max [A]	typ [A]	[$\pm$ 0.3 mm]
F1C2-080808W-1R8M	1.8	20	4.0	22.5	28.0	18.0	24.0	7.20
F1C2-080808W-2R2M	2.2	20	4.3	21.0	24.0	16.0	21.5	7.20
F1C2-080808W-3R3M	3.3	20	7.3	18.0	21.0	13.5	18.0	6.90
F1C2-080808W-4R7M	4.7	20	9.8	15.0	19.0	10.5	14.6	6.90
F1C2-080808W-6R8M	6.8	20	14.3	12.5	14.5	8.0	11.3	6.90
F1C2-080808W-100M	10.0	20	22.9	8.5	11.0	6.6	8.7	6.90

Notes:

1. Referenced ambient temperature 25°C
2. Test Condition: 100 kHz, 0.1 Vrms
3. Saturation Current - Isat: DC current (A) that will cause L0 to drop approximately 30%
Temperature Rise Current - Irms: DC current (A) that will cause an approximate ΔT of 40°C
4. Operating temperature range includes self-temperature rise
5. Operating Temperature: -55°C to 125°C
6. The products' temperature (ambient + temp rise) should not exceed 125 °C under the worst case operating condition.
Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all could affect the operating temperature, which should be verified in the end application.

PART NUMBER KEY

F1C2 - 080808W - XXX X

Type / Product Series
F1C2 = High Power Shielded SMD Inductors

Form Factor
080808W

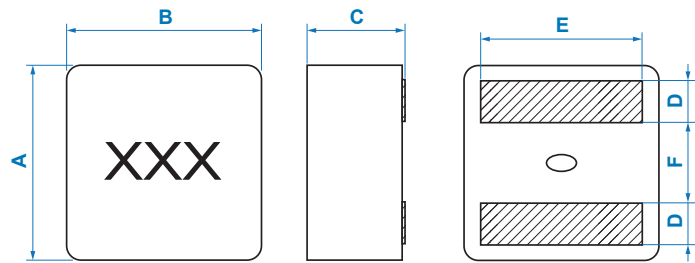
Inductance Tolerance
M = $\pm 20\%$

Inductance *
4R7 = 4.7 μ H

* Note: Inductance expressed by three figures. The unit is micro henry (μ H). 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 μ H). In that case, all figures are significant digits.

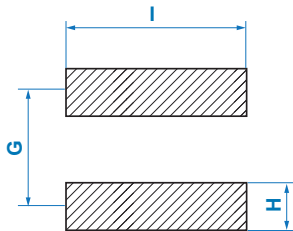
MECHANICAL DRAWING

Units: mm



PAD LAYOUT

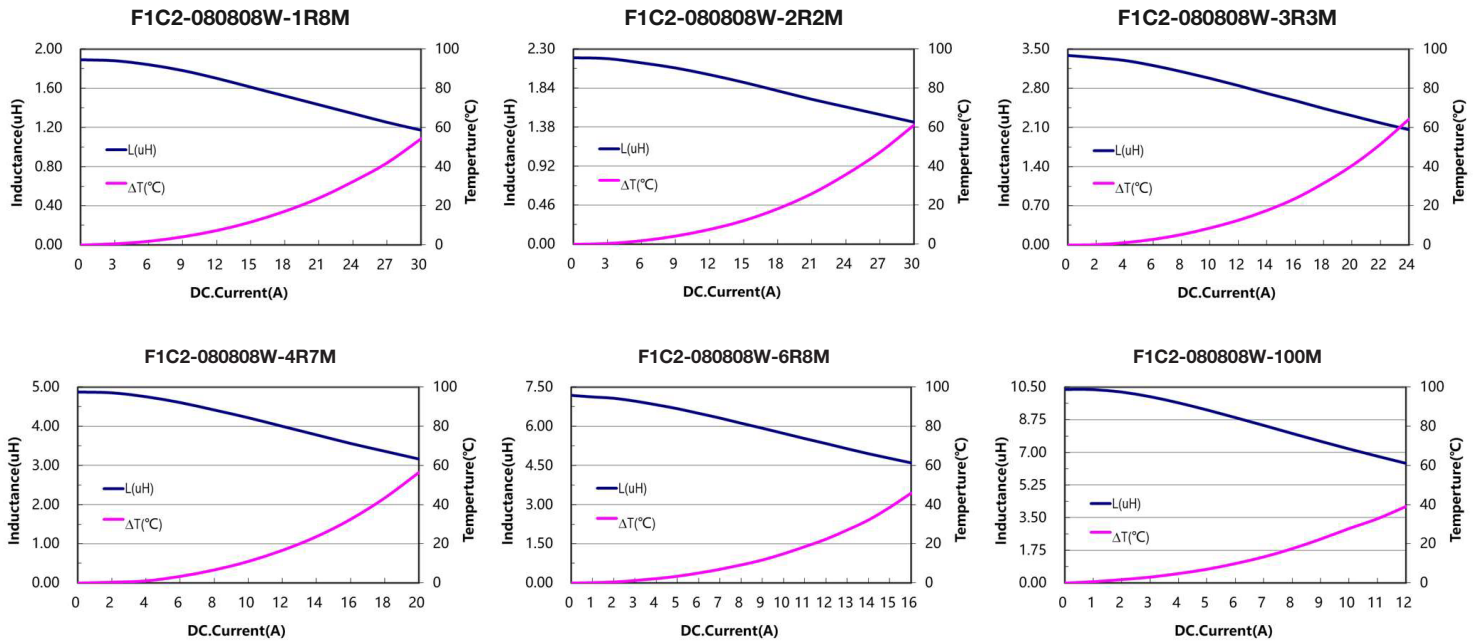
Units: mm



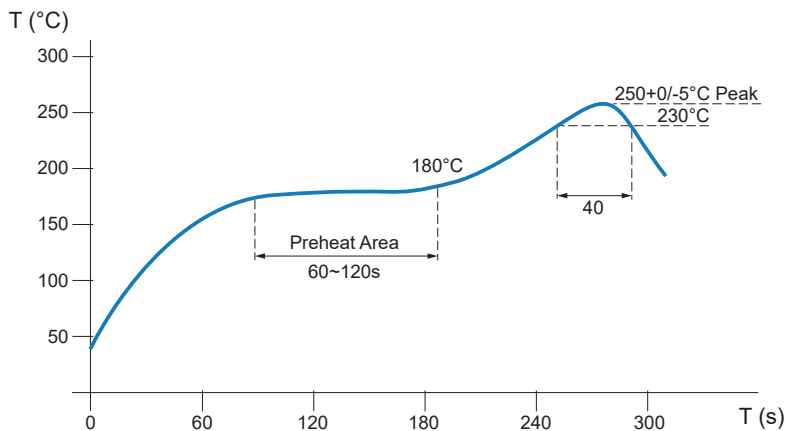
MECHANICAL DIMENSIONS (mm)

Product Series	A	B	C	D	E	F	G	H	I
F1C2-080808W	8.50 ± 0.3	8.90 ± 0.3	8.00 max	1.80 ± 0.3	See table	3.50 ± 0.5	5.35	2.65	7.80

PERFORMANCE CURVES



REFLOW SOLDERING TEMPERATURE CURVE

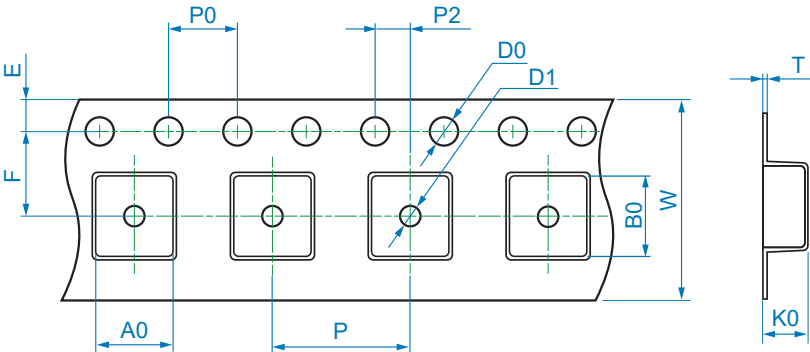


The recommended reflow conditions are set according to the soldering equipment used.

Since various manufactures may have different reflow soldering equipment, products, process conditions, set methods, etc., when setting the reflow conditions, please adjust and confirm according to users' environment/equipment.

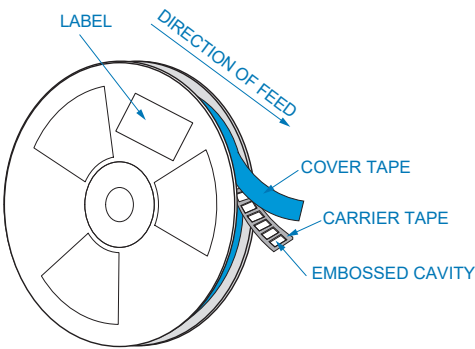
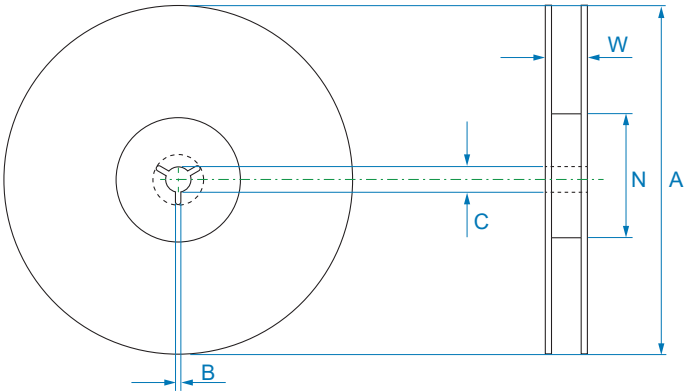
QUANTITY PER REEL & PACKING INFORMATION

Units: mm



TAPE DIMENSIONS (mm)

Product Series	W	P	P0	P2	D0	D1	T	A0	B0	K0	E	F
F1C2-080808W	24 ± 0.3	16 ± 0.1	4 ± 0.1	2 ± 0.1	1.5 ± 0.1	1.5 ± 0.1	0.35 ± 0.05	9.4 ± 0.1	8.9 ± 0.1	8.5 ± 0.1	1.75 ± 0.1	11.5 ± 0.1

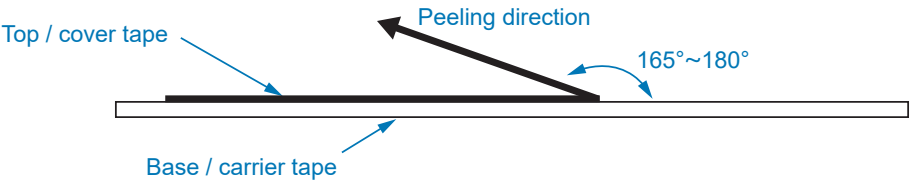


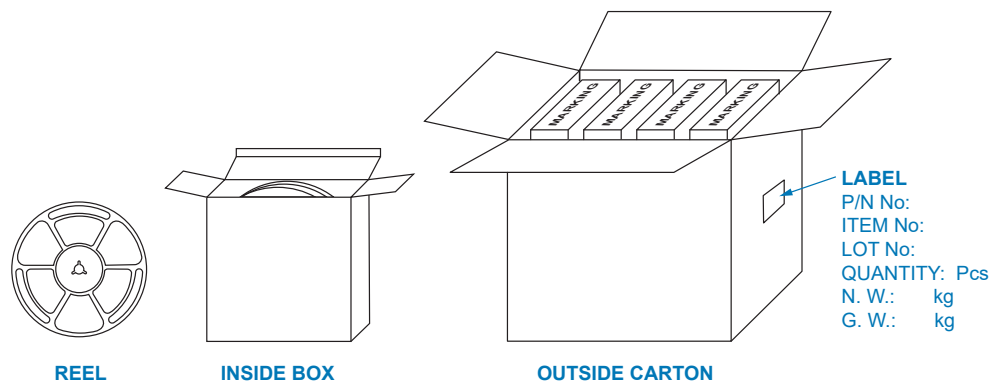
REEL DIMENSIONS (mm)

Product Series	A	W	N	B	C
F1C2-080808W	330 ± 2.0	24.0 ± 0.5	97 ± 0.5	2.2 ± 0.5	13.2 ± 0.2

Peel-off Force

The peel-off speed shall be about 300 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
F1C2-080808W	450	900	3600

Storage Conditions

- a) Temperature conditions: <35°C.
- b) Humidity conditions between 35% - 65%.
- c) Moisture Sensitivity Level (MSL): Level 1.
- d) Storage of material to be in a sulfur and chlorine free environment.

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[CDRH8D43RT125NP-680MC](#) [CDRH80D65BT150NP-4R7NC](#) [CDRH70D45BT150NP-101MC](#) [CDRH10D68RT125NP-102PC](#)
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[CDRH10D60BT150NP-101MC](#) [CDRH104RT125NP-6R8PC](#) [CD105T125NP-331KC](#) [CDRH104RT125NP-221MC](#) [CDRR7D45T125NP-](#)
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[CDRH80D65BT150NP-471MC](#)