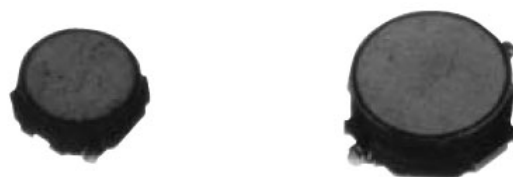


C3-P1.2R

RoHS AEC-Q200 Semi-Shielded structure

2023/03/22

Outline



Compacts, low-height, and high current power inductor used in digital devices and mobile phones. Several dimensions are available.

Features

1. Low DCR by magnetically shielded structure with magnetic resin.
2. Impact-resistant structure with wider terminals.
3. Non-Solder products by laser welding.

Applications

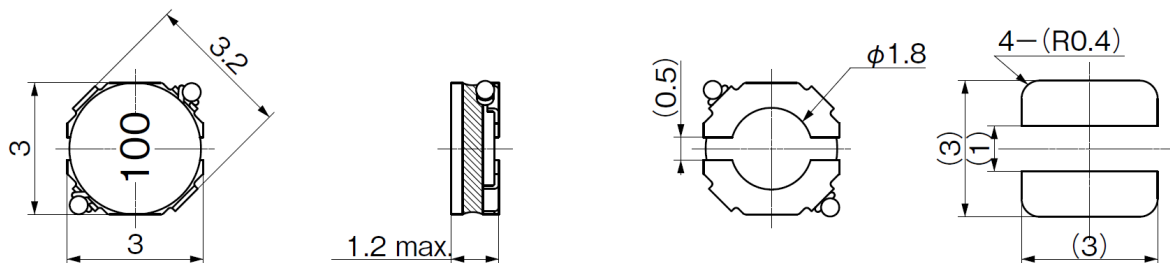
For DC-DC converter power supply of miniature portable devices (mobile phones, portable game equipment, DSC, DVC, etc.).

Dimensions

C3-P1.2R

RoHS AEC-Q200 Semi-Shielded structure

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mm

Specifications

Size(W) [mm]	Size(D) [mm]	Length(H) Max [mm]	Stamp	Inductance [micro H]	Inductance Tolerance lower limit [%]	Inductance Tolerance upper limit [%]
3.0	3.0	1.2	1R2	1.20	-30	30
3.0	3.0	1.2	1R5	1.50	-30	30
3.0	3.0	1.2	1R8	1.80	-30	30
3.0	3.0	1.2	2R7	2.70	-30	30
3.0	3.0	1.2	3R3	3.30	-30	30
3.0	3.0	1.2	3R9	3.90	-30	30
3.0	3.0	1.2	4R7	4.70	-30	30
3.0	3.0	1.2	5R6	5.60	-30	30
3.0	3.0	1.2	6R8	6.80	-30	30
3.0	3.0	1.2	8R2	8.20	-30	30
3.0	3.0	1.2	100	10.00	-20	20
3.0	3.0	1.2	120	12.00	-20	20
3.0	3.0	1.2	150	15.00	-20	20
3.0	3.0	1.2	180	18.00	-20	20
3.0	3.0	1.2	220	22.00	-20	20
3.0	3.0	1.2	270	27.00	-20	20
3.0	3.0	1.2	330	33.00	-20	20
3.0	3.0	1.2	390	39.00	-20	20
3.0	3.0	1.2	470	47.00	-20	20

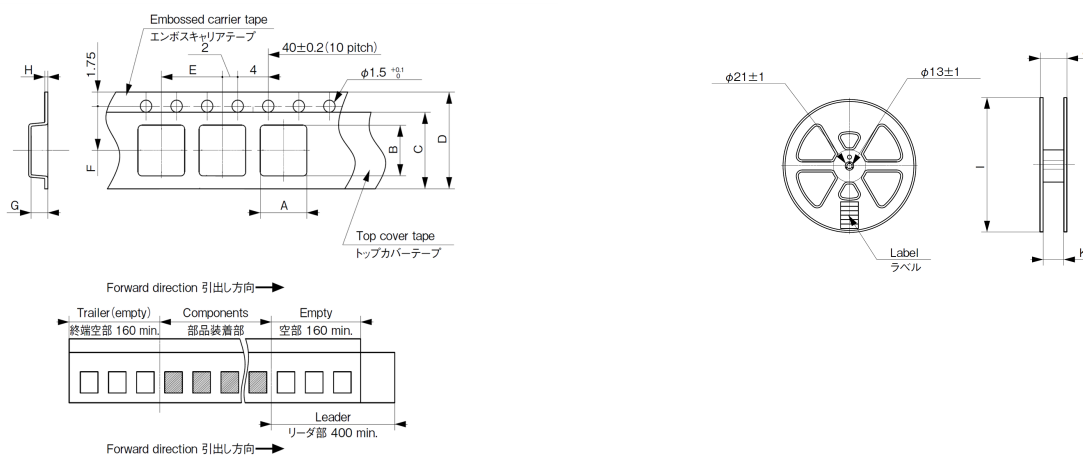
C3-P1.2R

RoHS AEC-Q200 Semi-Shielded structure

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Stamp	Inductance Test Freq. [KHz]	DC Resistance [m OHM]	Rated DC Current L=-30 percent [A]	Rated DC Current deltaT=25K [A]
1R2	1	55.00	1.50	1.60
1R5	1	66.00	1.40	1.50
1R8	1	76.00	1.30	1.40
2R7	1	83.00	1.25	1.30
3R3	1	105.00	1.00	1.10
3R9	1	135.00	0.90	1.00
4R7	1	155.00	0.85	0.90
5R6	1	170.00	0.80	0.85
6R8	1	210.00	0.70	0.80
8R2	1	245.00	0.60	0.75
100	1	280.00	0.55	0.70
120	1	400.00	0.50	0.60
150	1	460.00	0.45	0.55
180	1	620.00	0.42	0.50
220	1	670.00	0.38	0.45
270	1	750.00	0.35	0.40
330	1	1050.00	0.31	0.35
390	1	1200.00	0.28	0.32
470	1	1300.00	0.26	0.30

Package Dimension



C3-P1.2R

RoHS AEC-Q200 Semi-Shielded structure

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Q'ty [pcs./reel]	Tape Dimensions A [mm]	Tape Dimensions B [mm]	Tape Dimensions C a [mm]	Tape Dimensions C b [mm]	Tape Dimensions D a [mm]	Tape Dimensions D b [mm]
5000	3.3	3.3	9.5	0.2	12	0.3

Tape Dimensions E a [mm]	Tape Dimensions E b [mm]	Tape Dimensions F a [mm]	Tape Dimensions F b [mm]	Tape Dimensions G a [mm]	Tape Dimensions G b [mm]	Tape Dimensions H a [mm]
8	0.1	5.5	0.1	1.5	1.5	0.3

Tape Dimensions H b [mm]	Reel Dimensions I a [mm]	Reel Dimensions I b [mm]	Reel Dimensions J b [mm]	Reel Dimensions K a [mm]	Reel Dimensions K b [mm]
0.05	φ 330	φ 2	1	13.5	1