

CPU Series



CPU series is designed for low RDC and ultra large current application. Its assembly model magnetic shielded type is suitable for high-density mounting and ultra low buzz noise. Soldering conditions can be easily confirmed when mounting onto the board. This series also provides customers with embossed carrier type packaging for automatic mounting machine.

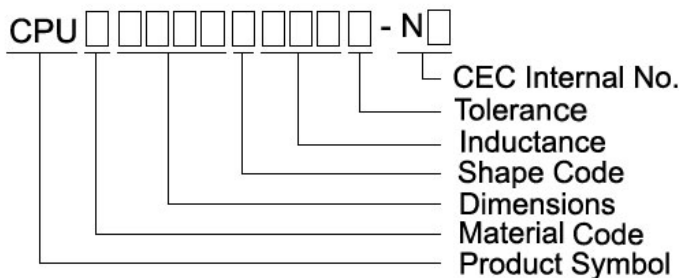
Features

- The products contain no Halogen Free and also support Halogen Free products
- Excellent for power line DC-DC conversion applications
- Shielded construction
- Lowest DCR/ μ H, in this package series
- Handle high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction

Applications

- Excellent for power line DC-DC conversion applications used in power switching, personal computers and other handheld electronic equipment

Product Identification



Shapes and Dimensions

FIG 1

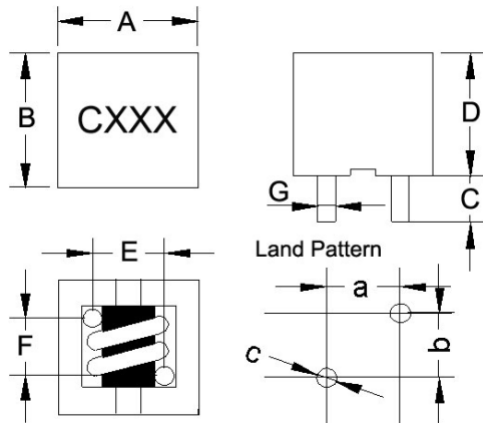


FIG 2

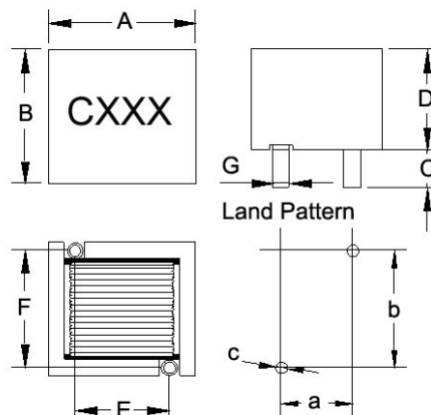


figure 2:
CPUX1210-101M
CPUX1210-121M
CPUX1210-221M

Dimensions in mm

TYPE	A	B	C	D	E	F	G	a	b	c
CPUX0806N	8.2 ⁺⁰	8.2 ⁺⁰	3.5±0.5	7.0 ⁺⁰	4.4±0.5	4.5±0.5	0.7±0.1	4.9	5.0	1.0
CPUX0808N	8.2 ⁺⁰	8.2 ⁺⁰	3.5±0.5	9.5 ⁺⁰	4.5±0.5	4.0±0.5	0.7±0.1	5.0	4.5	0.9
CPUX1008N	11.7 ⁺⁰	9.7 ⁺⁰	3.5±0.5	9.5 ⁺⁰	7.0±0.5	4.7±0.5	1.1±0.1	7.5	5.2	1.2
CPUX1009N	11.0 ⁺⁰	11.0 ⁺⁰	3.4±0.5	10.0 ⁺⁰	6.0±0.5	4.5±0.5	1.4±0.1	6.5	5.0	1.8
CPUX1108N	11.5 ⁺⁰	11.5 ⁺⁰	3.4±0.5	9.5 ⁺⁰	6.8±0.5	6.8±0.5	1.0±0.1	7.3	7.3	1.4
CPUX1208N	11.7 ⁺⁰	11.7 ⁺⁰	3.4±0.5	8.0 ⁺⁰	7.1±0.5	6.4±0.5	1.1±0.1	7.6	6.9	1.2
CPUX1210N	11.7 ⁺⁰	11.7 ⁺⁰	3.4±0.5	10.0 ⁺⁰	7.0±0.5	6.0±0.5	1.5±0.1	7.5	6.5	1.9

Leaded Power Chokes - CPU Series

Electrical Characteristics

Part Number	Inductance (mH)	Tolerance (±%)	Test Frequency (KHz)	RDC (mΩ) Max	Isat (A) Typ	Irms (A) Typ
CPUI0806N-R25M-N	0.25	20	100	1.20	30	28
CPUI0806N-R47M-N	0.47	20	100	2.00	20	20
CPUI0806N-R80M-N	0.80	20	100	3.00	20	18
CPUI0806N-1R0M-N	1.00	20	100	4.30	18	15
CPUI0806N-1R2M-N	1.20	20	100	3.00	20	18
CPUI0806N-2R2M-N	2.20	20	100	4.50	8.0	13
CPUI1008N-R50M-N	0.50	20	100	0.87	35	30
CPUI1008N-1R0M-N	1.00	20	100	2.00	40	18
CPUI1108N-R25M-N	0.25	20	100	1.20	30	28
CPUI1108N-R30M-N	0.30	20	100	1.20	30	28
CPUI1108N-R60M-N	0.60	20	100	1.07	38	26
CPUI1108N-1R0M-N	1.0	20	100	1.30	35	31
CPUI1108N-2R5M-N	2.5	20	100	4.70	24	18
CPUI1108N-5R0M-N	5.0	20	100	9.20	16	10
CPUI1210N-R30M-N	0.30	20	100	0.80	40	38
CPUI1210N-R50M-N	0.50	20	100	1.12	40	35
CPUI1210N-R68M-N	0.68	20	100	0.80	40	35
CPUI1210N-1R0M-N	1.00	20	100	1.30	30	25
CPUI1210N-2R5M-N	2.50	20	100	5.00	24	14
CPUI1210N-3R0M-N	3.00	20	100	6.30	20	14
CPUI1210N-8R5M-N	8.50	20	100	19.6	11	7.0
CPUI1210N-100M-N	10.0	20	100	19.5	11	7.0

- Isat for inductance drops 20% from its value without current
- I rms for a 40 ° rise above 25 ° ambient.
- Customized Specifications are welcome.
- Tested L: WK4237METER

RDC: HK502BC METER

Isat, I rms : WK3260B/ 3265B METER

Leaded Power Chokes - CPU Series

Electrical Characteristics

Part Number	Inductance (mH)	Tolerance (±%)	Test Frequency (KHz)	RDC (mΩ) Max	Isat (A) Typ	Irms (A) Typ
CPUN0808N-R47M-N	0.47	20	100	2.0	20	18
CPUN0808N-1R0M-N	1.00	20	100	3.5	15	14
CPUN0808N-1R2M-N	1.20	20	100	1.7	15	18
CPUN0808N-2R2M-N	2.20	20	100	8.0	15	10
CPUN0808N-4R7M-N	4.70	20	100	18.6	10.5	7.5
CPUN0808N-100M-N	10.0	20	100	53	3.0	4.2
CPUN0808N-150M-N	15.0	20	100	65	3.0	2.0
CPUN0808N-330M-N	33.0	20	100	110	4.0	3.0
CPUN1008N-R22M-N	0.22	20	100	0.75	40	32
CPUN1008N-R36M-N	0.36	20	100	0.75	30	30
CPUN1008N-1R0M-N	1.00	20	100	1.21	20	30
CPUN1009N-R30M-N	0.30	20	100	0.65	50	36
CPUN1009N-R50M-N	0.50	20	100	0.78	30	30
CPUN1009N-1R0M-N	1.00	20	100	1.8	24	28
CPUN1009N-1R2M-N	1.20	20	100	2.5	10	10
CPUN1009N-150M-N	15.0	20	100	51.6	1.8	4
CPUN1009N-121M-N	120	20	100	280	1.5	1
CPUN1208N-R25M-N	0.25	20	100	0.80	50	38
CPUN1208N-R47M-N	0.47	20	100	1.0	35	28
CPUN1208N-1R0M-N	1.00	20	100	1.3	35	31
CPUN1208N-2R0M-N	2.00	20	100	3.2	25	20
CPUN1208N-3R3M-N	3.00	20	100	6.3	25	14
CPUN1210N-R25M-N	0.25	20	100	0.6	60	40
CPUN1210N-R47M-N	0.47	20	100	0.8	50	35
CPUN1210N-1R0M-N	1.00	20	100	1.45	40	35
CPUN1210N-1R2M-N	1.20	20	100	2.7	30	25
CPUN1210N-1R8M-N	1.80	20	100	3.7	15	13
CPUN1210N-2R2M-N	2.20	20	100	3.2	20	18
CPUN1210N-4R7M-N	4.70	20	100	6.5	18	14
CPUN1210N-121M-N	120	20	100	240	2	2.2

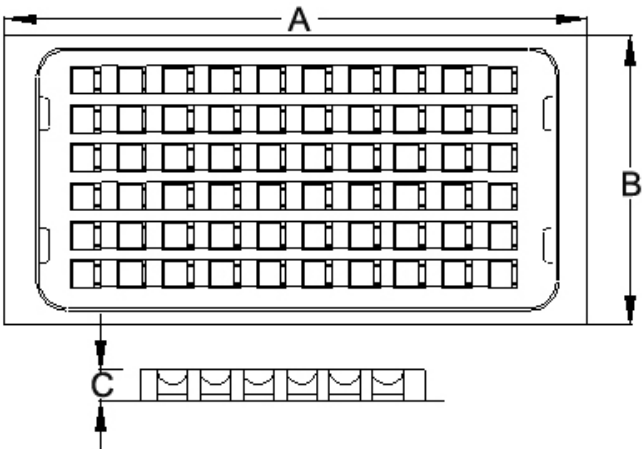
- Isat for inductance drops 20% from its value without current
- I rms for a 40 °C rise above 25 °C ambient.
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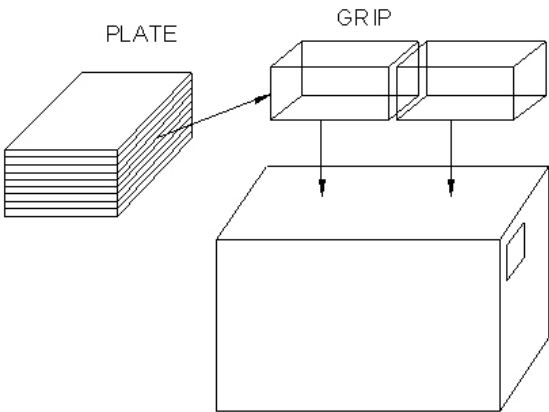
Isat, I rms : WK3260B/ 3265B METER

Packaging

PLATE DIMENSIONS



PACKAGING QUANTITY



Dimensions in mm

TYPE	PLATE DIMENSIONS			QUANTITY				
	A	B	C	BULK	PLATE	PLATE/GRIP	GRIP	BOX
CPUX0806N	250	220	10	✓	100	10	2	2000
CPUX0808N	250	220	10	✓	100	10	2	2000
CPUX1008N	250	200	10	✓	100	10	2	2000
CPUX1009N	250	200	13.5	✓	100	8	2	1600
CPUX1108N	250	200	13.5	✓	100	8	2	1600
CPUX1208N	250	200	13.5	✓	100	8	2	1600
CPUX1210N	250	200	13.5	✓	100	8	2	1600