

CPUD Series



CPUD 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.

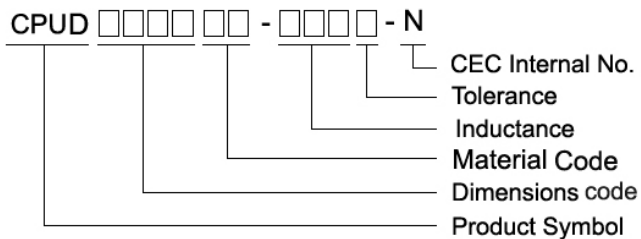
Features

- Excellent for power line DC-DC conversion applications
- Shielded construction
- Low DCR/ μH , 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

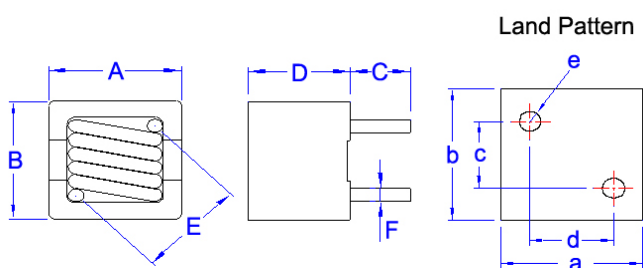
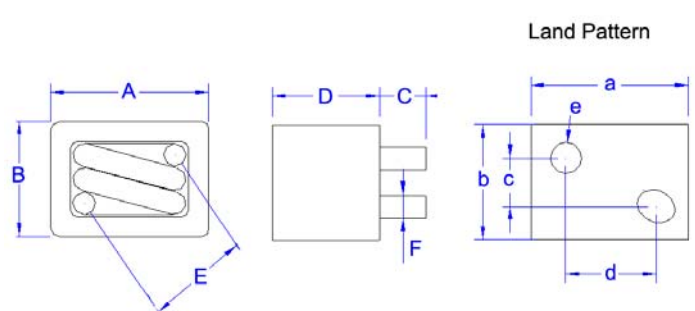


FIG 2



Dimensions in mm

TYPE	FIG	A	B	C	D	E	F	a	b	c	d	e
CPUD0806MN	1	8.2^{+0}	8.2^{+0}	3.5 ± 0.5	7.5^{+0}	6.5 ± 0.5	0.8 ± 0.1	9.0	9.0	4.3 ± 0.5	4.9 ± 0.5	2
CPUD1108IR	2	11.7^{+0}	9.7^{+0}	3.5 ± 0.5	8.5^{+0}	7.8 ± 0.5	1.4 ± 0.1	12.0	10.0	4.2 ± 0.5	6.6 ± 0.5	2
CPUD1310IR	2	13.5^{+0}	12.5^{+0}	3.5 ± 0.5	10^{+0}	10.5 ± 0.5	1.0 ± 0.1	14.2	13.2	7.0 ± 0.5	7.8 ± 0.5	2

Electrical Characteristics

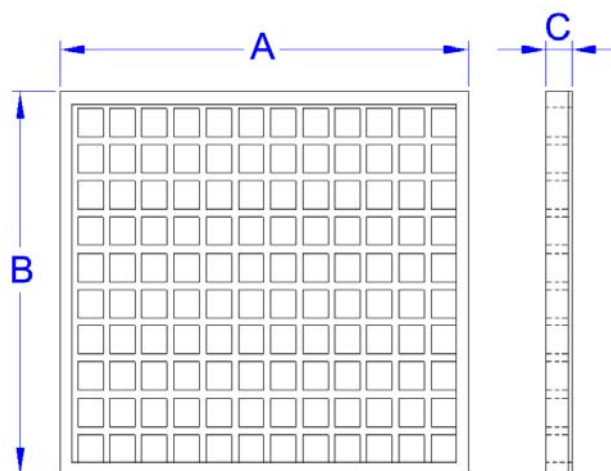
Part Number	Inductance (μ H)	Tolerance ($\pm$ %)	Test Frequency (KHz)	RDC (m Ω) $\pm$ 8%	Isat (A) Max	Irms (A) Max	Marking
CPUD0806MN-R60M-N	0.6	20	100	2.1	24	20	R60
CPUD0806MN-1R0M-N	1.0	20	100	3.0	15	18	1R0
CPUD0806MN-1R5M-N	1.5	20	100	4.5	11	13	1R5
CPUD0806MN-2R2M-N	2.2	20	100	4.5	8	13	2R2
CPUD0806MN-3R3M-N	3.3	20	100	6.8	7	11	3R3
CPUD0806MN-4R7M-N	4.7	20	100	12.0	5	7	4R7
CPUD1108IR-R30M-N	0.30	20	100	0.65	50	43	R30
CPUD1108IR-R56M-N	0.56	20	100	1.00	42	35	R56
CPUD1108IR-1R0M-N	1.0	20	100	2.00	50	28	1R0
CPUD1108IR-1R5M-N	1.5	20	100	3.65	30	20	1R5
CPUD1108IR-2R0M-N	2.0	20	100	5.20	27	15	2R0
CPUD1310IR-1R0M-N	1.0	20	100	1.15	42	32	1R0
CPUD1310IR-1R5M-N	1.5	20	100	1.85	42	26	1R5
CPUD1310IR-2R0M-N	2.0	20	100	3.50	35	21	2R0
CPUD1310IR-3R3M-N	3.3	20	100	5.00	22	17	3R3
CPUD1310IR-4R7M-N	4.7	20	100	8.60	17	12	4R7

- Isat for inductance drops 20% from its value without current
- I rms for a 40°C rise above 25°C ambient.
- Customized Specifications are available.
- Tested L: WK4237METER
RDC: HK502BC METER
Isat 、I rms : WK3260B/ 3265B METER

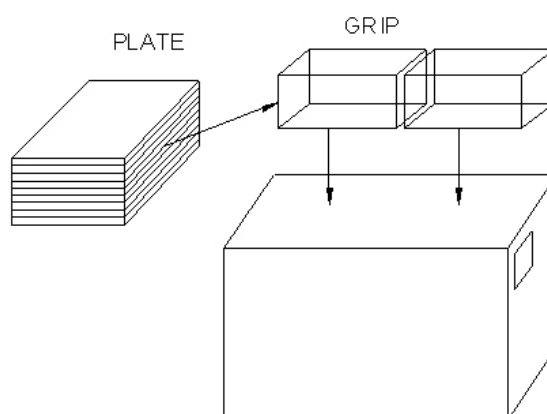
SMD Power Inductors - CPUD Series

Packaging

PLATE DIMENSIONS



PACKAGING QUANTITY



Dimensions in mm

TYPE	PLATE DIMENSIONS			QUANTITY				
	A	B	C	BULK	PLATE	PLATE/GRIP	GRIP	BOX
CPUD0806MN	255	210	14	✓	200	10	2	4000
CPUD1108IR	230	150	12	✓	120	10	2	2400
CPUD1310IR	230	150	15	✓	100	10	2	2000