

Type: CDRH3D23; CDH3D23/HP

◆ **Product Description**

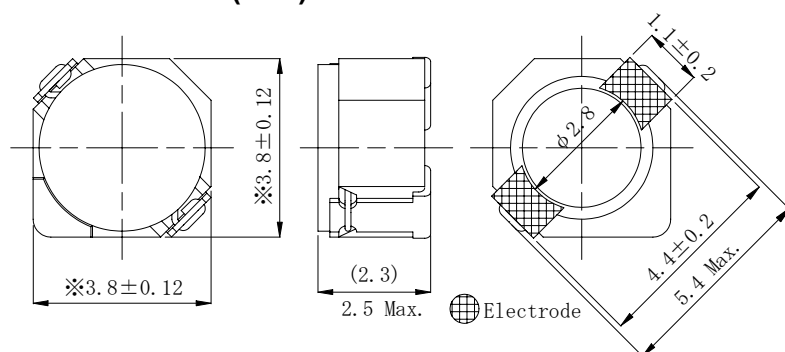
- $3.92 \times 3.92\text{mm}$ Max.(L×W), 2.5mm Max. Height.
- Inductance range: $1.0 \sim 47.0 \mu\text{H}$
- Rated current range: $0.35 \sim 2.8\text{A}$ (CDRH3D23); $0.53 \sim 2.55\text{A}$ (CDRH3D23/HP)
- Custom design is available.



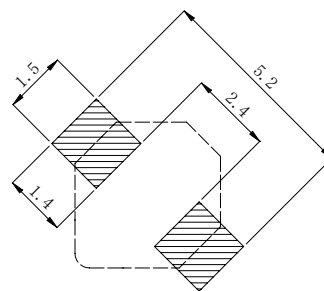
◆ **Feature**

- Magnetically shielded construction.
- Ideally used in Mobilephone, PDA, MP3, DSC/DVC etc as DC-DC Converter inductors.
- RoHS Compliance.

◆ **Dimensions (mm)**



◆ **Land Pattern (mm)**



◆ **Specification (CDRH3D23)**

Part Name ※	Stamp	Inductance (μH) 100kHz/1V	D.C.R.(m Ω) Max.(Typ.) (at 20°C)	Saturation Current (A) ※1		Temperature Rise Current (A)※2
				(at 20°C)	(at 100°C)	
CDRH3D23NP-1R0P□	A	$1.0\mu\text{H} \pm 25\%$	25.0(20)	2.80	2.00	3.10
CDRH3D23NP-1R5P□	B	$1.5\mu\text{H} \pm 25\%$	29.0(24)	2.20	1.65	2.90
CDRH3D23NP-2R2P□	C	$2.2\mu\text{H} \pm 25\%$	38.3(31)	1.80	1.30	2.50
CDRH3D23NP-3R3P□	D	$3.3\mu\text{H} \pm 25\%$	56.3(45)	1.45	1.10	2.20
CDRH3D23NP-4R7P□	E	$4.7\mu\text{H} \pm 25\%$	68.8(55)	1.30	0.95	1.90
CDRH3D23NP-5R6P□	F	$5.6\mu\text{H} \pm 25\%$	75.0(60)	1.10	0.80	1.80
CDRH3D23NP-6R8P□	G	$6.8\mu\text{H} \pm 25\%$	87.8(72)	1.00	0.75	1.70
CDRH3D23NP-8R2P□	H	$8.2\mu\text{H} \pm 25\%$	94.8(77)	0.95	0.70	1.60
CDRH3D23NP-100M□	I	$10.0\mu\text{H} \pm 20\%$	117(95)	0.85	0.60	1.40
CDRH3D23NP-150M□	J	$15.0\mu\text{H} \pm 20\%$	191(154)	0.70	0.50	0.85
CDRH3D23NP-220M□	K	$22.0\mu\text{H} \pm 20\%$	270(219)	0.55	0.40	0.75
CDRH3D23NP-330M□	L	$33.0\mu\text{H} \pm 20\%$	381(307)	0.50	0.35	0.6
CDRH3D23NP-470M□	M	$47.0\mu\text{H} \pm 20\%$	546(441)	0.35	0.25	0.55

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				(at 20°C)	(at 100°C)	
CDRH3D23HPNP-1R2P□	B	1.2±25%	40.4(32.3)	3.52	3.00	2.55
CDRH3D23HPNP-2R2P□	E	2.2±25%	50.3(40.2)	2.6	2.24	2.25
CDRH3D23HPNP-2R7P□	F	2.7±25%	62.3(49.8)	2.4	2.08	2.0
CDRH3D23HPNP-3R3P□	G	3.3±25%	70.0(56.0)	2.2	1.9	1.85
CDRH3D23HPNP-4R7P□	J	4.7±25%	95.5(76.4)	1.84	1.57	1.60
CDRH3D23HPNP-5R6P□	K	5.6±25%	102(81.2)	1.66	1.44	1.50
CDRH3D23HPNP-6R8P□	L	6.8±25%	136(109)	1.52	1.3	1.30
CDRH3D23HPNP-8R2P□	N	8.2±25%	145(116)	1.36	1.18	1.25
CDRH3D23HPNP-100M□	A	10±20%	198(158)	1.28	1.08	1.02
CDRH3D23HPNP-120M□	B	12±20%	249(199)	1.14	0.97	0.95
CDRH3D23HPNP-150M□	C	15±20%	276(221)	1.02	0.88	0.90
CDRH3D23HPNP-220M□	E	22±20%	383(306)	0.8	0.65	0.70
CDRH3D23HPNP-330M□	G	33±20%	555(444)	0.68	0.58	0.58
CDRH3D23HPNP-470M□	J	47±20%	669(535)	0.56	0.48	0.53

※ **Description Of Part Name**

CDRH3D23NP-1R0P□
 B: Box
 C: Carrier Tape

※1.Saturation current: The DC current at which the inductance decreases to 65% of its nominal value.

※2.Temperature rise current: The DC current at which the temperature rise is $\Delta t=40^{\circ}\text{C}$.($T_a=20^{\circ}\text{C}$)