

SMD Shielded Type

CDRH**D**/A Series (車載向け高温対応インダクタ)

Recommended Automotive Application Type Usable up to 125°C (excluding self heating)


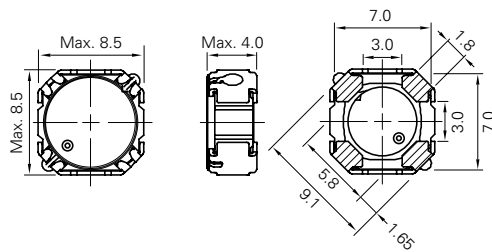
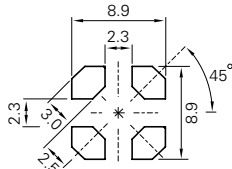
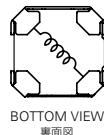


OUTLINE / 概要

The operating temperature range is a maximum of 125 degree, and the inductance range is 2.4~560μH. It matches as power inductor for DC/DC converters corresponding high temperature.


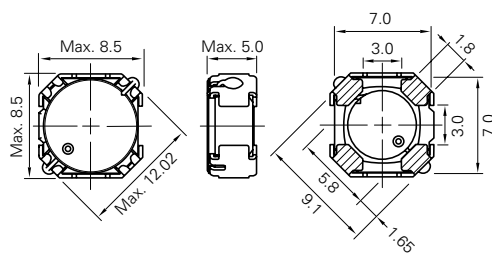
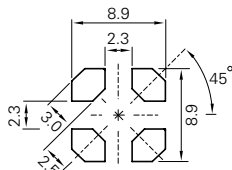
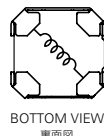


使用温度範囲125℃まで可能なインダクタです。インダクタンス範囲 2.4~560μHまで取り揃えています。高温対応のDC-DCコンバータ電源用のパワーインダクタコイルとして最適です。

Automotive Application / SMD Shielded Type


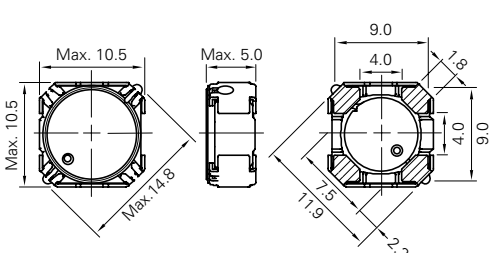
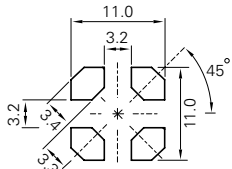



CDRH8D38/A

	DIMENSIONS (mm) 外形寸法図	LAND PATTERNS (mm) 推奨ランド寸法	CONNECTION 端子接続	WIRE 線種
 <p>(10μH - 120μH)</p>			 <p>BOTTOM VIEW 裏面図</p>	 <p>CONSTRUCTION 磁気構造図</p> 


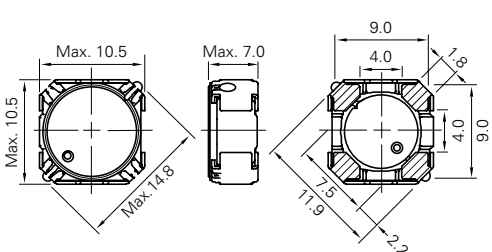
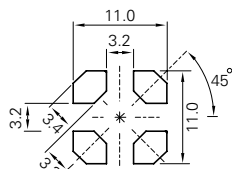



CDRH8D48/A

	DIMENSIONS (mm) 外形寸法図	LAND PATTERNS (mm) 推奨ランド寸法	CONNECTION 端子接続	WIRE 線種
 <p>(10μH - 150μH)</p>			 <p>BOTTOM VIEW 裏面図</p>	 <p>CONSTRUCTION 磁気構造図</p> 

CDRH10D48/A

	DIMENSIONS (mm) 外形寸法図	LAND PATTERNS (mm) 推奨ランド寸法	CONNECTION 端子接続	WIRE 線種
 <p>(2.4μH - 330μH)</p>			 <p>BOTTOM VIEW 裏面図</p>	 <p>CONSTRUCTION 磁気構造図</p> 

CDRH10D68/A

	DIMENSIONS (mm) 外形寸法図	LAND PATTERNS (mm) 推奨ランド寸法	CONNECTION 端子接続	WIRE 線種
 <p>(10μH - 560μH)</p>			 <p>BOTTOM VIEW 裏面図</p>	 <p>CONSTRUCTION 磁気構造図</p> 

TYPE : CDRH8D38/A, CDRH8D48/A, CDRH10D48/A, CDRH10D68/A

Parts No.	L (H)	CDRH8D38/A		CDRH8D48/A		CDRH10D48/A		CDRH10D68/A	
		D.C.R.(Ω) : Max.(Typ.)	Rated Current (at 125 °c) (A) *A	D.C.R.(Ω) : Max.(Typ.)	Rated Current (at 125 °c) (A) *A	D.C.R.(Ω) : Max.(Typ.)	Rated Current (at 125 °c) (A) *A	D.C.R.(Ω) : Max.(Typ.)	Rated Current (at 125 °c) (A) *A
2R4	2.4μ					12m(9m)	5.20		
2R4	3.4μ					13m(10m)	4.80		
4R3	4.3μ					15m(12m)	4.30		
5R8	5.8μ					24m(19m)	3.80		
7R2	7.2μ					29m(23m)	2.90		
8R7	8.7μ					37m(29m)	2.70		
100	10μ	42.5m(34m)	1.72	38m(30m)	2.26	40m(32m)	2.60	26.3m(21m)	3.05
120	12μ	55.0m(44m)	1.57	50m(40m)	1.87	44m(35m)	2.50	28.8m(23m)	2.80
150	15μ	70.0m(56m)	1.41	63m(50m)	1.62	49m(39m)	2.30	35.0m(28m)	2.55
180	18μ	83.8m(67m)	1.33	75m(60m)	1.58	62m(49m)	2.20	37.5m(30m)	2.42
220	22μ	100m(80m)	1.24	88m(70m)	1.45	70m(56m)	1.90	51.3m(41m)	2.05
270	27μ	125m(100m)	1.11	106m(85m)	1.33	90m(72m)	1.70	63.8m(51m)	1.90
330	33μ	141m(113m)	980m	125m(100m)	1.20	113m(90m)	1.50	80.0m(64m)	1.68
390	39μ	171m(137m)	890m	156m(125m)	1.06	127m(101m)	1.40	100m(80m)	1.50
470	47μ	225m(180m)	780m	188m(150m)	1.00	138m(110m)	1.30	125m(100m)	1.32
560	56μ	290m(232m)	680m	238m(190m)	890m	172m(137m)	1.20	156m(125m)	1.24
680	68μ	318m(255m)	650m	275m(220m)	820m	209m(167m)	1.10	191m(153m)	1.12
820	82μ	364m(291m)	600m	312m(250m)	730m	268m(214m)	970m	215m(172m)	1.03
101	100μ	479m(383m)	530m	394m(315m)	700m	294m(235m)	920m	250m(200m)	920m
121	120μ	530m(424m)	500m	438m(350m)	630m	374m(299m)	820m	273m(218m)	880m
151	150μ			580m(465m)	580m	437m(349m)	770m	359m(287m)	770m
181	180μ					558m(446m)	650m	463m(370m)	700m
221	220μ					637m(509m)	610m	590m(472m)	630m
271	270μ					839m(671m)	530m	674m(539m)	580m
331	330μ					938m(750m)	490m	740m(592m)	520m
391	390μ							986m(789m)	470m
471	470μ							1.11(884m)	450m
561	560μ							1.21(965m)	400m

Measuring Freq. (L) / インダクタンス測定周波数 (L)

CDRH8D38/A	100kHz
CDRH8D48/A	100kHz
CDRH10D48/A	100kHz
CDRH10D68/A	100kHz

Tolerance of Inductance / インダクタンス公差

CDRH8D38/A	10μH - 120μH ± 20% (M)
CDRH8D48/A	10μH - 150μH ± 20% (M)
CDRH10D48/A	2.4μH - 330μH ± 20% (M)
CDRH10D68/A	10μH - 560μH ± 20% (M)

Other / その他

*A The rated DC current Indicates the DC current when the inductance decreases to maximum 65% of nominal value or DC current when the temperature of coil is increased to 30 °c. The smaller one is defined as DC rated current.

*A 定格電流は直流電流を流した時インダクタンス公称値の65%以上を示す電流値、もしくはコイルの温度上昇が30℃になる電流値のどちらか小さい値とする。

NOTE / 特記事項

Please note that when using the product for automotive while applying current with audio-frequency (AF) signals may result in audible noises due to magnetostriction. Also, in order to avoid an audible noise problem, operating with Non-AF signals would be recommended. The noise may amplify depending on the coil mount area on the PCB. 車載向け製品に可聴周波数を含んだ電流を流しますと磁歪現象によるうなりが生じ、うなり音が聞こえる場合がありますので、うなり音が問題となるような用途でご利用の場合は、可聴周波数及び可聴周波数成分を含んだ電流を流さないようにして下さい。また、ご使用基板での搭載場所によっては、うなり音を増幅させる可能性もありますので、ご注意下さい。

・ To order a product, please add " NP " after the product type e.g. Ordering code : Type name NP △△△○×
 ・ ご注文の際は製品タイプ名の後に "NP" を付けて下さい。

Ordering Code / 品名表記法

CDRH8D38/ANP - △△△○×

△ : Parts No. ○ : Tolerance of inductance × : Packing
 M (20%) C (Carrier tape) B (Box)

Characteristics of CDRH8D38/A

