TLCDRH5D28 Series

Description:

- **Maximum height:** 3.0mm
- **Standard inductor:** TLCDRH5D28, TLCDRH5D28R
- **High Power inductor:** TLCDRH5D28R /HP
- **Inductance range:** TLCDRH5D28: 2.5-100 µH
  TLCDRH5D28R: 2.5-100 µH
  TLCDRH5D28R/HP: 2.2- 47µH

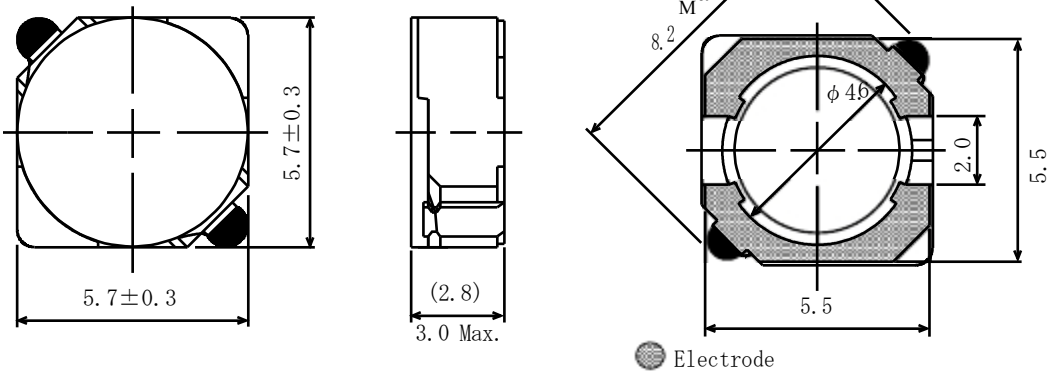
- Rated current: TLCDRH5D28: 0.42-2.6A
  TLCDRH5D28R: 0.4-2.6A
  TLCDRH5D28R/HP: 0.85-3.8A

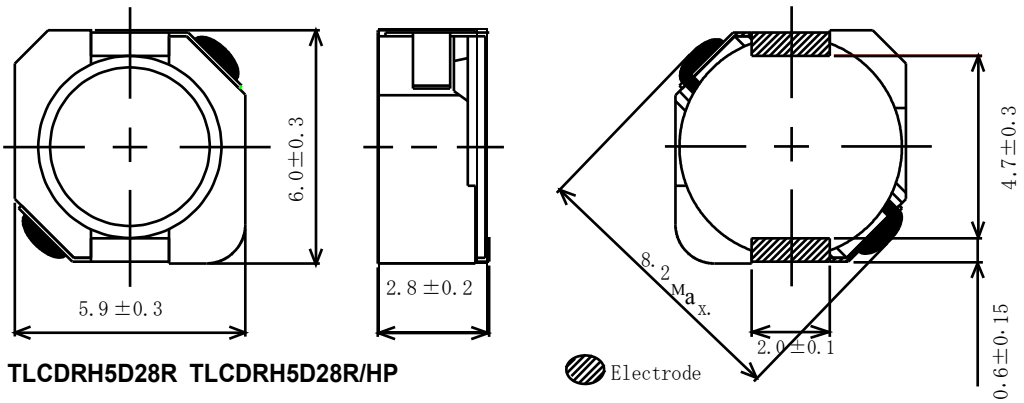
Feature:

- Magnetically shielded
- Used in Notebook, HDD, DSC/DVC, LCD TV, DC-DC converters
- RoHS Compliant

Dimensions (mm)

TLCDRH5D28





TLCDRH5D28R TLCDRH5D28R/HP

TESLA MAGNETICS INC.
3240 SCOTT BLVD
SANTA CLARA, CA 95054

TEL: (408) 980-0400
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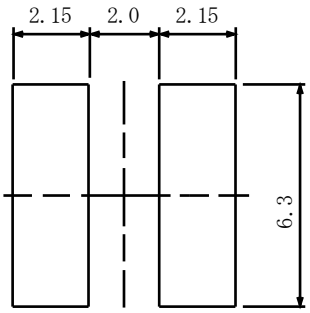
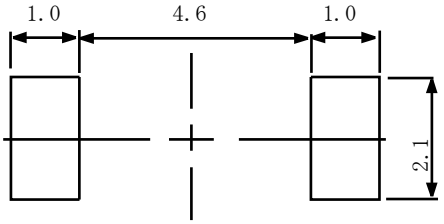
TLCDRH5D28 , TLCDRH5D28R , TLCDRH5D28R/HP

TLCDRH5D28



TLCDRH5D28R, TLCDRH5D28R/HP



TLCDRH5D28

Land Pattern (mm)

Electrical Specifications:

Part Number	Marking	Inductance (μH) 100kHz/1V	Max. DCR (Ω Typ.) (at 20℃)	Rated current (A) 1-1*
TLCDRH5D28NP-2R5N☐	2R5	2.5±30%	18m (13m)	2.60
TLCDRH5D28NP-3R0N☐	3R0	3.0±30%	24m (18m)	2.40
TLCDRH5D28NP-4R2N☐	4R2	4.2±30%	31m (23m)	2.20
TLCDRH5D28NP-5R3N☐	5R3	5.3±30%	38m (28m)	1.90
TLCDRH5D28NP-6R2N☐	6R2	6.2±30%	45m (33m)	1.80
TLCDRH5D28NP-8R2N☐	8R2	8.2±30%	53m (39m)	1.60
TLCDRH5D28NP-100N☐	100	10±30%	65m (48m)	1.30
TLCDRH5D28NP-120N☐	120	12±30%	76m (56m)	1.20
TLCDRH5D28NP-150N☐	150	15±30%	103m (76m)	1.10
TLCDRH5D28NP-180N☐	180	18±30%	110m (82m)	1.00
TLCDRH5D28NP-220N☐	220	22±30%	122m (90m)	0.90
TLCDRH5D28NP-270N☐	270	27±30%	175m(130m)	0.85
TLCDRH5D28NP-330N☐	330	33±30%	189m(140m)	0.75
TLCDRH5D28NP-390N☐	390	39±30%	212m(157m)	0.70
TLCDRH5D28NP-470N☐	470	47±30%	250m(185m)	0.62
TLCDRH5D28NP-560N☐	560	56±30%	305m(226m)	0.58
TLCDRH5D28NP-680N☐	680	68±30%	355m(263m)	0.52
TLCDRH5D28NP-820N☐	820	82±30%	463m(343m)	0.46
TLCDRH5D28NP-101N☐	101	100±30%	520m(385m)	0.42

TLCDRH5D28R

Electrical Specifications

Part Number	Marking	Inductance (μH) 100kHz/1V	Max. DCR (mΩ Typ.) (at 20℃)	Rated current (A) 1-1*
TLCDRH5D28RNP-2R5N□	2R5	2.5±30%	17.6(13)	2.60
TLCDRH5D28RNP-3R3N□	3R3	3.3±30%	20.3(15)	2.30
TLCDRH5D28RNP-4RØN□	4R0	4.0±30%	27.0(20)	2.10
TLCDRH5D28RNP-5RØN□	5R0	5.0±30%	31.1(23)	1.85
TLCDRH5D28RNP-6RØN□	6R0	6.0±30%	41.9(31)	1.70
TLCDRH5D28RNP-8RØN□	8R0	8.0±30%	49.9(37)	1.50
TLCDRH5D28RNP-1ØØN□	100	10±30%	54.0(40)	1.30
TLCDRH5D28RNP-12ØN□	120	12±30%	71.6(53)	1.20
TLCDRH5D28RNP-15ØN□	150	15±30%	82.4(61)	1.10
TLCDRH5D28RNP-18ØN□	180	18±30%	101.5(75)	1.05
TLCDRH5D28RNP-22ØN□	220	22±30%	119.0(88)	0.95
TLCDRH5D28RNP-27ØN□	270	27±30%	146.0(108)	0.85
TLCDRH5D28RNP-33ØN□	330	33±30%	182.5(135)	0.76
TLCDRH5D28RNP-39ØN□	390	39±30%	209.5(155)	0.68
TLCDRH5D28RNP-47ØN□	470	47±30%	229.5(170)	0.60
TLCDRH5D28RNP-56ØN□	560	56±30%	305.0(226)	0.55
TLCDRH5D28RNP-68ØN□	680	68±30%	351.0(260)	0.48
TLCDRH5D28RNP-82ØN□	820	82±30%	418.5(310)	0.45
TLCDRH5D28RNP–1Ø1N□	101	100±30%	520.0(385)	0.40

TLCDRH5D28R/HP

Electrical Specifications:

Part Number	Marking	Inductance (μH) 100kHz/1V	Max. DCR (mΩ Typ.) (at 20℃)	Saturation Current (A) 1-2*		Temperature Rise current (A) 2*
				(20℃)	(105℃)	
TLCDRH5D28RHPNP-2R2N	2R2	2.2±25%	24.8(19.8)	5.50	4.50	3.80
TLCDRH5D28RHPNP-3RØN	3R0	3.0±25%	31.8(25.4)	4.70	3.90	3.35
TLCDRH5D28RHPNP-4R7N	4R7	4.7±25%	43.1(34.5)	3.70	3.05	2.80
TLCDRH5D28RHPNP-5R6N	5R6	5.6±25%	47.9(38.3)	3.30	2.65	2.70
TLCDRH5D28RHPNP-6R8N	6R8	6.8±25%	61.3(49.0)	3.10	2.55	2.50
TLCDRH5D28RHPNP-8R2N	8R2	8.2±25%	88.4(70.7)	2.70	2.30	1.90
TLCDRH5D28RHPNP-1ØØM	100	10.0±20%	93.0(74.4)	2.45	2.05	1.85
TLCDRH5D28RHPNP-12ØM	120	12.0±20%	115(92.1)	2.30	2.00	1.60
TLCDRH5D28RHPNP-15ØM	150	15.0±20%	144(115)	2.05	1.65	1.40
TLCDRH5D28RHPNP-18ØM	180	18.0±20%	161(128)	1.90	1.55	1.35
TLCDRH5D28RHPNP-22ØM	220	22.0±20%	213(171)	1.75	1.42	1.20
TLCDRH5D28RHPNP-27ØM	270	27.0±20%	277(221)	1.60	1.30	1.00
TLCDRH5D28RHPNP-33ØM	330	33.0±20%	314(251)	1.35	1.10	0.90
TLCDRH5D28RHPNP-47ØM	470	47.0±20%	379(303)	1.20	1.00	0.85

Description

TLCDRH5D28RHPNP-18ØM□

- B Bulk
- C Carrier Tape

*1-1. Rated current: The DC current at which the inductance decreases to 65 % of it's nominal value or when △t=30℃(TLCDRH5D28)or△t=40℃(TLCDRH5D28R), whichever is lower(Ta=20℃).

*1-2. Saturation current:The DC current at which the inductance decreases to 65% of it's nominal value.

*2. Temperature rise current: The DC current at which the temperature rise is △t=40℃.(Ta=20℃).