

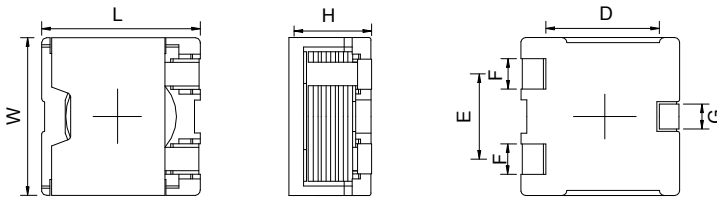
**Type: DEP1256H, 1349S**

**Product Outline**

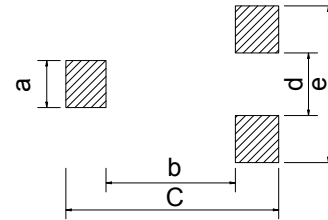
- Mn-Zn core is used to realize excellent saturation characteristics.
- Flat wire is used to realize ultra low DCR and higher temperature rise rated current.
- For high current DC/DC converter applications.
- Ideally used in LCD, Notebook PC CPU power supply, server etc.
- Custom design is also available.
- RoHS compliant.



**Dimensions**



**Recommended Land Pattern/**



Unit: mm

Type	L	W	H	D	E	F	G	a	b	c	d	e	Packaging (pcs/reel)
DEP1256H	12.5	12.5	5.6 max.	8.2	7.0	2.6	2.1	3.0	8.2	13.5	4.0	10.0	500
DEP1349S	13.5	13.5	4.9 max.	9.6	7.2	2.6	2.5	2.7	9.4	15.0	4.4	10.0	500

Dimensions without tolerance are typical.

**Product Identification**

DEP   1256   H   -   4R0   M   I   01

(1)   (2)   (3)   (4)   (5)   (6)   (7)

(1) Product Series No

(2) Dimension symbol

1256=12 x 5.6mm (L x H)

(3) Internal control code

(4) Inductance value

0R9=0.9uH, 4R0=4.0uH

(5) Tolerance

M=±20% , Y=±30% , P=±35%

(6) Packing Style, T=Taping, B=Bulk

(7) Characteristic parameter level

### DEP1256H Electrical Characteristics

Part Number	Inductance ① (uH)	Inductance Tolerance	DCR ② (mΩ) max.	Isat ③ (A) max.	Irms ④ (A) typ.
DEP1256H-0R9MT01	0.9	±20%	2.2	20.5	18.2
DEP1256H-1R0MT01	1.0	±20%	2.2	20.3	18.2
DEP1256H-1R8MT01	1.8	±20%	3.4	15.5	15.5
DEP1256H-2R8MT01	2.8	±20%	5.5	12.5	12.5
DEP1256H-4R0MT01	4.0	±20%	8.0	10.5	10.0
DEP1256H-5R6MT01	5.6	±20%	11.3	9.0	8.4
DEP1256H-7R2MT01	7.2	±20%	13.5	7.9	7.7
DEP1256H-100MT01	10	±20%	13.5	5.0	7.6

### DEP1349S Electrical Characteristics

Part Number	Inductance ① (uH)	Inductance Tolerance	DCR ② (mΩ) max.	Isat ③ (A) max.	Irms ④ (A) typ.
DEP1349S-R40YT01	0.4	±30%	1.86	32.64	18.87
DEP1349S-R90MT01	0.9	±20%	2.45	22.03	17.34
DEP1349S-1R6MT01	1.6	±20%	3.63	16.32	15.30
DEP1349S-2R5MT01	2.5	±20%	6.47	13.06	10.71
DEP1349S-3R6MT01	3.6	±20%	10.58	11.12	8.16
DEP1349S-4R8MT01	4.8	±20%	11.76	9.49	7.65
DEP1349S-6R4MT01	6.4	±20%	15.97	8.16	7.14
DEP1349S-8R0MT01	8.0	±20%	18.03	7.34	6.63

① Inductance tested at 100kHz, 0.1 Vrms using an Agilent/HP 4192A or equivalent.

② DCR measured on a micro-ohmmeter.

③ Rated current: The DC current at which the inductance decreases by 25% of its nominal value or at which  $\Delta t=40^{\circ}\text{C}$ , whichever is lower ( $T_a=20^{\circ}\text{C}$ ).