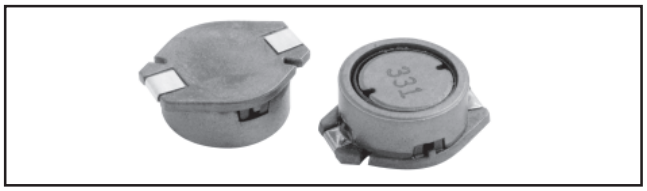
Model IDCS-2512

Vishay Dale

Inductors

High Current, Shielded, Surface Mount



FEATURES

- High energy storage.
- Low resistance.
- Magnetically shielded.
- Tape and reel packaging for automatic handling.

ELECTRICAL SPECIFICATIONS

Inductance Range: 1.0µH to 10,000µH, tested at 0.1 Vrms.
Inductance Tolerance: 20%.
Operating Temperature: - 20°C to + 80°C.
Storage Temperature: - 25°C to + 85°C.
Resistance to Solder Heat: 260°C for 10 seconds.

MATERIALS

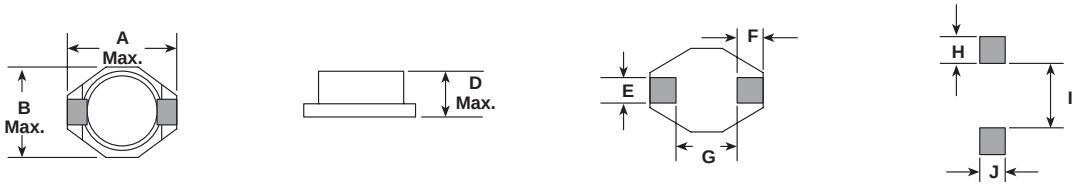
Core: Ferrite.
Wire: Enamelled copper wire.
Base: LCP.
Terminal: Nickel bronze.
Adhesive: Epoxy resin.

STANDARD ELECTRICAL SPECIFICATIONS

INDUCTANCE (µH)	TOLERANCE	TEST FREQUENCY L (KHz)	Q MINIMUM @ 100KHz	SELF-RESONANT FREQUENCY MINIMUM (MHz)	DCR MAXIMUM (Ohms)	CURRENT MAXIMUM* (A)
1.0	± 20%	100	30	250	0.040	3.0
1.5	± 20%	100	30	125	0.045	2.8
2.2	± 20%	100	40	120	0.050	1.8
3.3	± 20%	100	40	120	0.055	1.6
4.7	± 20%	100	40	105	0.060	1.4
6.8	± 20%	100	40	50	0.065	1.2
10	± 20%	100	40	38	0.075	1.0
15	± 20%	100	40	33	0.090	0.80
22	± 20%	100	40	25	0.11	0.70
33	± 20%	100	40	20	0.19	0.60
47	± 20%	100	40	20	0.23	0.50
68	± 20%	100	40	15	0.29	0.40
100	± 20%	100	40	10	0.48	0.30
150	± 20%	100	40	9	0.59	0.26
220	± 20%	100	40	6	0.77	0.22
330	± 20%	100	40	5	1.4	0.20
470	± 20%	100	40	4	1.8	0.19
1000	± 20%	100	40	3	2.2	0.18
680	± 20%	100	40	2	3.4	0.15
1500	± 20%	100	50	2	4.2	0.12
2200	± 20%	100	50	2	8.5	0.10
3300	± 20%	100	50	1	11.0	0.08
4700	± 20%	100	50	1	13.9	0.06
6800	± 20%	100	50	1	25.0	0.04
10,000	± 20%	100	50	0.8	32.8	0.02

*40°C temperature rise.

DIMENSIONAL CONFIGURATIONS [Numbers in brackets indicate millimeters]



A (Max.)	B (Max.)	D (Max.)	E	F	G	H	I	J
0.260 [6.60]	0.177 [4.50]	0.115 [2.92]	0.050 [1.27]	0.040 [1.02]	0.170 [4.32]	0.055 [1.40]	0.160 [4.06]	0.140 [3.56]

HOW TO ORDER

IDCS-2512	10µH	±20%
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE