IDC-5020



Vishay Dale

High Current, Surface Mount Inductors - Non-Shielded



ELECTRICAL SPECIFICATIONS

Inductance Range: 1.0 µH to 1000 µH, tested at 0.1 V_{BMS} Inductance Tolerance: 20 %, tighter tolerance available upon request

Operating Temperature: -40 °C to +125 °C Resistance to Solder Heat: 260 °C for 10 s

FEATURES

- · High energy storage
- Low resistance
- Tape and reel packaging for automatic handling
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

MECHANICAL SPECIFICATIONS

RoHS

COMPLIANT HALOGEN FREE

Core: ferrite Wire: enamelled copper wire Base: LCP Terminals: nickel bronze Adhesive: epoxy resin

STANDARD ELECTRICAL SPECIFICATIONS										
INDUCTANCE (µH)	TOLERANCE	TEST FREQUENCY L (kHz)	DCR MAX. (Ω)	I _{SAT} (A)	I _{RMS} (A)					
1.0	± 20 %	100	0.009	9.0	6.8					
1.5	± 20 %	100	0.010	8.0	6.4					
2.2	± 20 %	100	0.012	7.0	6.1					
3.3	± 20 %	100	0.015	6.4	5.4					
4.7	± 20 %	100	0.018	5.4	4.8					
6.8	± 20 %	100	0.027	4.6	4.4					
10	± 20 %	100	0.038	3.8	3.9					
15	± 20 %	100	0.046	3.0	3.1					
22	± 20 %	100	0.085	2.6	2.7					
33	± 20 %	100	0.10	2.0	2.1					
47	± 20 %	100	0.14	1.6	1.8					
68	± 20 %	100	0.20	1.4	1.5					
100	± 20 %	100	0.28	1.2	1.3					
150	± 20 %	100	0.40	1.0	1.0					
220	± 20 %	100	0.61	0.8	0.8					
330	± 20 %	100	1.02	0.6	0.6					
470	± 20 %	100	1.27	0.5	0.5					
680	± 20 %	100	2.02	0.4	0.4					
1000	± 20 %	100	3.00	0.3	0.3					

Notes

Inductance drop = 10 % typ. at I_{SAT} ΔT = 15 °C typ. at I_{RMS}

DIMENSIONS in inches [millimeters]											
B Max. ↓	A Max.		□□□□ ↓ D Ma					H - -			
A (Max.)	B (Max.)	D (Max.)	E	F	G	н	I	J			
0.510 [12.95]	0.370 [9.40]	0.205 [5.21]	0.100 [2.54]	0.100 [2.54]	0.300 [7.62]	0.115 [2.92]	0.290 [7.37]	0.110 [2.79]			
DESCRIPTION											
IDC-5020		10 µH	± 2	0 %	ER		e3				
MODEL	INDUCT	ANCE VALUE	INDUCTANCE	E TOLERANCE	PACKAGE C	ODE JEDEC	[®] LEAD (Pb)-FR	EE STANDARD			
GLOBAL PART NUMBER											
	DC RODUCT FAMILY	5	02		ACKAGE CODE	1 0 INDUCTA VALU		M TOL.			
Revision: 21-Ap	r-17	For t	echnical questic	1 ons, contact: <u>ma</u>	agnetics@vishay	.com	Document	Number: 34007			

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