

High Current, Surface Mount Inductors - Shielded



FEATURES

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



RoHS
COMPLIANT
HALOGEN
FREE

ELECTRICAL SPECIFICATIONS

Inductance Range: 10 μ H to 1000 μ H, tested at 0.1 V_{RMS}
Inductance Tolerance: 20 %, tighter tolerance available upon request
Operating Temperature: -40 °C to +125 °C
Resistance to Solder Heat: 260 °C for 10 s

MECHANICAL SPECIFICATIONS

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

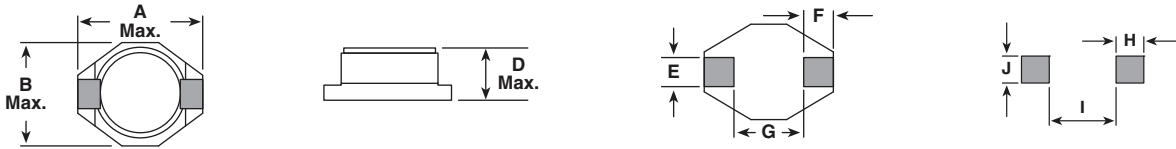
STANDARD ELECTRICAL SPECIFICATIONS

| INDUCTANCE (μ H) | TOLERANCE | TEST FREQUENCY L (kHz) | DCR MAX. (Ω) | I_{SAT} (A) | I_{RMS} (A) |
|-----------------------|------------|------------------------|-----------------------|---------------|---------------|
| 10 | ± 20 % | 100 | 0.040 | 8.0 | 3.9 |
| 15 | ± 20 % | 100 | 0.048 | 7.0 | 3.4 |
| 22 | ± 20 % | 100 | 0.059 | 6.0 | 3.1 |
| 33 | ± 20 % | 100 | 0.075 | 5.0 | 2.8 |
| 47 | ± 20 % | 100 | 0.097 | 4.0 | 2.4 |
| 68 | ± 20 % | 100 | 0.138 | 3.0 | 2.0 |
| 100 | ± 20 % | 100 | 0.207 | 2.4 | 1.7 |
| 150 | ± 20 % | 100 | 0.293 | 2.1 | 1.3 |
| 220 | ± 20 % | 100 | 0.47 | 1.9 | 1.1 |
| 330 | ± 20 % | 100 | 0.78 | 1.1 | 0.86 |
| 470 | ± 20 % | 100 | 1.08 | 1.1 | 0.73 |
| 680 | ± 20 % | 100 | 1.40 | 0.96 | 0.64 |
| 1000 | ± 20 % | 100 | 2.01 | 0.80 | 0.53 |

Notes

- Inductance drop = 10 % typ. at I_{SAT}
- $\Delta T = 40$ °C typ. at I_{RMS}

DIMENSIONS in inches [millimeters]

|  | | | | | | | | |
|--|------------------|-----------------|-----------------|-----------------|------------------|-----------------|------------------|-----------------|
| A (Max.) | B (Max.) | D (Max.) | E | F | G | H | I | J |
| 0.730 [18.54] | 0.600 [15.24] | 0.300 [7.62] | 0.100 [2.54] | 0.100 [2.54] | 0.500 [12.70] | 0.115 [2.92] | 0.490 [12.45] | 0.110 [2.79] |

DESCRIPTION

| | | | | |
|------------------|-----------------------------|------------------------------|--------------|--------------------------------|
| IDCS-7328 | 10 μH | ± 20 % | ER | e3 |
| MODEL | INDUCTANCE VALUE | INDUCTANCE TOLERANCE | PACKAGE CODE | JEDEC® LEAD (Pb)-FREE STANDARD |

GLOBAL PART NUMBER

| | | | | | | | | | | | | | |
|----------------|----------|----------|----------|----------|----------|----------|----------|--------------|----------|------------------|----------|----------|----------------------|
| I | D | C | S | 7 | 3 | 2 | 8 | E | R | 1 | 0 | 0 | M |
| PRODUCT FAMILY | | | | SIZE | | | | PACKAGE CODE | | INDUCTANCE VALUE | | | INDUCTANCE TOLERANCE |



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