November 2, 2011

DATATRONIC DISTRIBUTION, INC.

SHIELDED SMD INDUCTOR DR331-8 SERIES

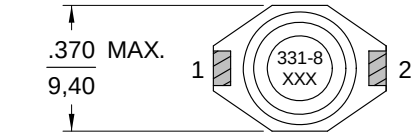
Features

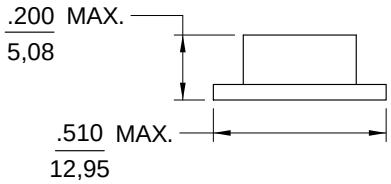
- **Low Profile Surface Mount Design**
- **Inductance Range from 1.0µH to 47µH**
- **Operating Temp. -40°C to +85°C**
- **Tinned Leads with Leaded Solder is Available** (note 8)

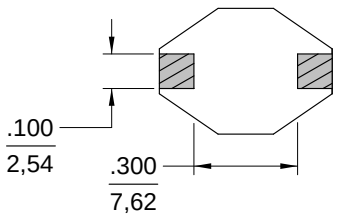
ELECTRICAL SPECIFICATIONS AT 25°C

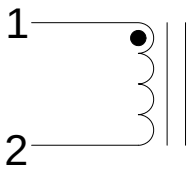
Part No.	Inductance (µH) ± 20%	DCR (Ω) Max.	I rms (A) Max. (Note 3)	I sat (A) Max. (Note 2)	Q Min.	SRF MHz (REF.)
DR331-8-102	1.0	0.021	5.0	5.6	10	140
DR331-8-152	1.5	0.022	4.5	5.2	10	120
DR331-8-222	2.2	0.032	3.8	5.0	10	80
DR331-8-332	3.3	0.039	3.3	3.9	10	70
DR331-8-472	4.7	0.054	2.7	3.2	15	40
DR331-8-682	6.8	0.075	2.2	2.8	15	38
DR331-8-103	10	0.101	2.0	2.4	15	35
DR331-8-153	15	0.15	1.5	2.0	20	25
DR331-8-223	22	0.207	1.3	1.6	20	19
DR331-8-333	33	0.334	1.1	1.4	20	15
DR331-8-473	47	0.472	0.8	1.0	20	13

MECHANICAL SPECIFICATIONS

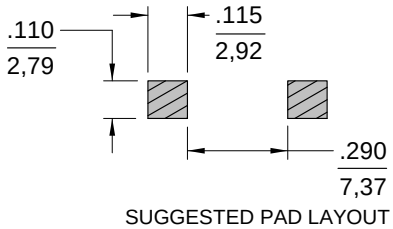








SCHEMATIC



SUGGESTED PAD LAYOUT

NOTES:

1. Dimensions are shown in inches/millimeters
   Unless otherwise specified, tolerance
   = Inches: ±0.010
   = Millimeters: ±0,30
2. Isat based on the inductance being 90% of its initial value
3. Irms based on temperature rise of 40°C
4. Tape & Reel Packaging, 500 pcs / reel.
5. Inductance tested at 0.1 Vrms @ 100 kHz
6. Terminal finish is compliant to RoHS requirements
7. Solder in accordance with J-STD-002 Rev. D
8. Non-RoHS series parts 42-331-8-XXX are finished with leaded solder Sn60Pb40 or equivalent

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All specifications are subject to change without notice.