

# HIGH POWER INDUCTORS

## SURFACE MOUNT, UP TO 9 AMPS

# HI SERIES



RESISTORS • CAPACITORS • COILS • DELAY LINES



### FEATURES

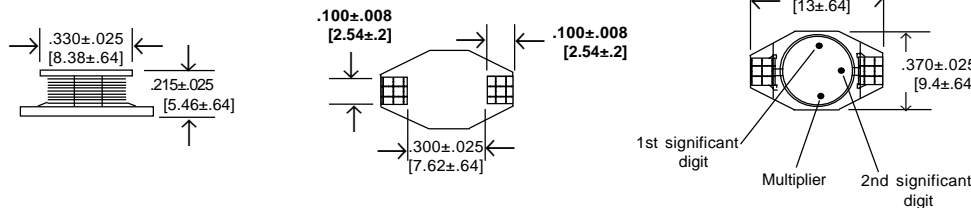
- True surface mount design
- Wide inductance range
- Cost effective high performance
- Exceptionally low DC resistance
- High power-to-size ratio
- Low profile and small footprint
- HI500 offers magnetic shielded protection

### OPTIONS

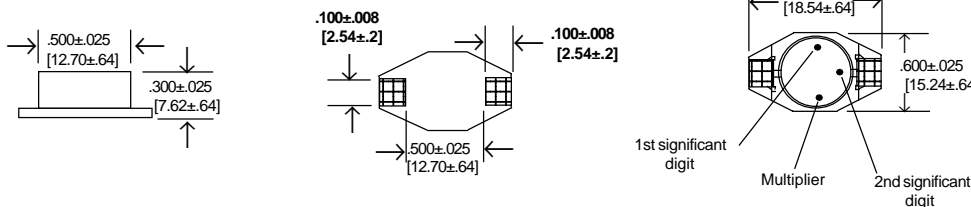
- Option 63 - polarity identification
- Non-standard - custom versions available

RCD's new HI Series represents the ultimate in low cost, miniature high power inductors. Constructed from materials especially developed for hi-performance surface mount applications to ensure the highest reliability. Designed to meet a wide variety of applications including board mounted DC-DC converters, miniature power supplies, and voltage multiplying circuits, and a host of high power applications where space is at a premium.

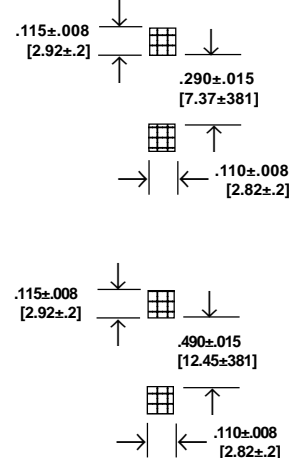
### HI330 DIMENSIONS



### HI500 DIMENSIONS



### Mounting Pads



### HI330 SPECIFICATIONS

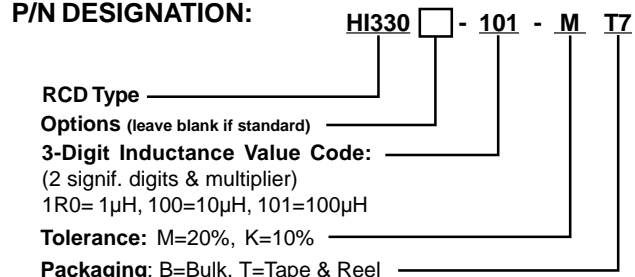
RCD P/N	Inductance (μH±/ 20%)	DCR (Ω ±/15%)	Isat (A)	I <sub>rms</sub> (B)
HI330-1R0-KT	1.0	.008	9.0	6.8
HI330-1R5-KT	1.5	.009	8.0	6.4
HI330-2R2-KT	2.2	.010	7.0	6.1
HI330-3R3-KT	3.3	.013	6.4	5.4
HI330-4R7-KT	4.7	.016	5.4	4.8
HI330-6R8-KT	6.8	.019	4.6	4.4
HI330-100-KT	10	.025	3.8	3.9
HI330-150-KT	15	.040	3.0	3.1
HI330-220-KT	22	.050	2.6	2.7
HI330-330-KT	33	.088	2.0	2.1
HI330-470-KT	47	.12	1.6	1.8
HI330-680-KT	68	.16	1.4	1.5
HI330-101-KT	100	.23	1.2	1.3
HI330-151-KT	150	.33	1.0	1.0
HI330-221-KT	220	.53	.8	.8
HI330-331-KT	330	.81	.6	.6
HI330-471-KT	470	1.1	.5	.5
HI330-681-KT	680	1.6	.4	.4
HI330-102-KT	1000	2.15	.3	.3

### HI500 SPECIFICATIONS

RCD P/N	Inductance (μH±/ 20%)	DCR (Ω ±/15%)	SRF typ (MHz)	Isat (A)	I <sub>rms</sub> (A)
HI500-100-KT	10.0	.040	30	8.0	3.9
HI500-150-KT	15.0	.048	20	7.0	3.4
HI500-220-KT	22.0	.059	18	6.0	3.1
HI500-330-KT	33.0	.075	14	5.0	2.8
HI500-470-KT	47.0	.097	10	4.0	2.4
HI500-680-KT	68.0	.138	9	3.0	2.0
HI500-101-KT	100	.207	7	2.4	1.7
HI500-151-KT	150	.293	6	2.1	1.3
HI500-221-KT	220	.470	5	1.9	1.1
HI500-331-KT	330	.780	4	1.1	0.86
HI500-471-KT	470	1.08	3	1.1	0.73
HI500-681-KT	680	1.40	2.5	0.96	0.64
HI500-102-KT	1000	2.01	2	0.80	0.53

\* NOTES: Tested at 100kHz, 0.1 Vrms, Inductance drop 10% typical at Isat, 40° rise typical Irms, Operating temp. range -40°C to +85°C, Electrical specifications @ 25°C.

### P/N DESIGNATION:



### TYPICAL PERFORMANCE CHARACTERISTICS

Temperature Rise	40°C Max
Rated Current	Based on temperature rise and DeltaL/LOA = 10% Typ.
Storage Temp. Range	-40°C to +125°C
Operating Temp. Range	-25°C to +105°C
Resistance to Solder Heat	260°C, 10 Seconds
Resistance to Solvents	per MIL-STD-202

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FA specifications are subject to change without notice.