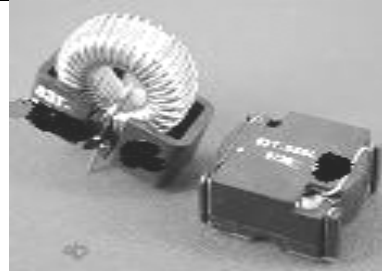


ICI-83T SERIES

INDUCTORS

FEATURES

- Base material meets flammability Requirements of UL 94V-0
- Available in surface mount and through Hole versions



Electrical Specifications @25°C– Operating Temperature-30° to+130°C

| THT Part Number | SMT Part Number | In Circuit Operating Parameters ¹ | | | Nominal DCR (Ω) | Package | |
|-----------------|-----------------|----------------------------------------------|-------------------------|------------------------------------|-----------------|--------------|---------------|
| | | Nominal Inductance (μ H) | Rated Current (Amps DC) | (Max ²) ETop (V-μ Sec) | | Through Hole | Surface Mount |
| 83T-259P2 | 83T-259L2 | 259 | 0.13 | 23.1 | 3.4 | P2 | L2 |
| 83T-178P2 | 83T-178L2 | 178 | 0.16 | 16.5 | 2.8 | P2 | L2 |
| 83T-118P2 | 83T-118L2 | 118 | 0.2 | 13.2 | 1.8 | P2 | L2 |
| 83T-790P2 | 83T-790L2 | 79 | 0.25 | 9.9 | 1.5 | P2 | L2 |
| 83T-550P2 | 83T-550L2 | 55 | 0.3 | 6.6 | 1.0 | P2 | L2 |
| 83T-390P2 | 83T-390L2 | 39 | 0.34 | 6.6 | .80 | P2 | L2 |
| 83T-260P2 | 83T-260L2 | 26 | 0.45 | 6.6 | .62 | P2 | L2 |
| 83T-374P3 | 83T-374L3 | 374 | 0.2 | 75.9 | 2.7 | P3 | L3 |
| 83T-256P3 | 83T-256L3 | 256 | 0.25 | 33 | 2.2 | P3 | L3 |
| 83T-176P3 | 83T-176L3 | 176 | 0.3 | 26.4 | 1.4 | P3 | L3 |
| 83T-118P3 | 83T-118L3 | 118 | 0.38 | 19.8 | 1.2 | P3 | L3 |
| 83T-780P3 | 83T-780L3 | 78 | 0.46 | 16.5 | 0.8 | P3 | L3 |
| 83T-550P3 | 83T-550L3 | 55 | 0.56 | 13.2 | 0.5 | P3 | L3 |
| 83T-390P3 | 83T-390L3 | 39 | 0.68 | 9.9 | 0.3 | P3 | L3 |
| 83T-260P3 | 83T-260L3 | 26 | 0.84 | 6.6 | 0.2 | P3 | L3 |
| 83T-170P3 | 83T-170L3 | 17 | 1.02 | 6.6 | 0.1 | P3 | L3 |
| 83T-375P7 | 83T-375L7 | 375 | 0.36 | 75.9 | 1.3 | P7 | L7 |
| 83T-251P7 | 83T-251L7 | 252 | 0.44 | 49.5 | 0.9 | P7 | L7 |
| 83T-171P7 | 83T-173L7 | 173 | 0.54 | 36.3 | 0.6 | P7 | L7 |
| 83T-115P7 | 83T-115L7 | 115 | 0.67 | 29.7 | 0.4 | P7 | L7 |
| 83T-780P7 | 83T-780L7 | 78 | 0.82 | 23.1 | 0.3 | P7 | L7 |
| 83T-540P7 | 83T-540L7 | 54 | 1.0 | 16.5 | 0.2 | P7 | L7 |
| 83T-380P7 | 83T-380L7 | 38 | 1.2 | 13.2 | 0.1 | P7 | L7 |
| 83T-260P7 | 83T-260L7 | 26 | 1.48 | 9.9 | 0.1 | P7 | L7 |
| 83T-180P7 | 83T-180L7 | 18 | 1.81 | 9.9 | 0.06 | P4 | L4 |
| 83T-377P4 | 83T-377L4 | 377 | 0.68 | 75.9 | 1.0 | P4 | L4 |
| 83T-248P4 | 83T-248L4 | 248 | 0.83 | 72.6 | 0.6 | P4 | L4 |
| 83T-168P4 | 83T-168L4 | 168 | 1.02 | 56.1 | 0.4 | P4 | L4 |
| 83T-111P4 | 83T-112L4 | 112 | 1.26 | 42.9 | 0.3 | P4 | L4 |
| 83T-770P4 | 83T-770L4 | 77 | 1.54 | 33 | 0.2 | P4 | L4 |
| 83T-530P4 | 83T-530L4 | 53 | 1.87 | 26.4 | 0.13 | P4 | L4 |
| 83T-370P4 | 83T-370L4 | 37 | 2.24 | 19.8 | 0.10 | P4 | L4 |
| 83T-240P4 | 83T-240L4 | 24 | 2.74 | 16.5 | 0.07 | P4 | L4 |
| 83T-170K1 | 83T-170L4 | 17 | 3.0 | 13.2 | 0.05 | K1 | L4 |
| 83T-251K3 | 83T-251H6 | 250 | 1.5 | 72.6 | 0.23 | K3 | H6 |
| 83T-168K3 | 83T-168H6 | 168 | 1.81 | 75.9 | 0.18 | K3 | H6 |
| 83T-114K3 | 83T-114H6 | 114 | 2.22 | 62.7 | 0.10 | K3 | H6 |
| 83T-770K3 | 83T-770H6 | 77 | 2.7 | 52.8 | 0.09 | K3 | H6 |
| 83T-530K3 | 83T-530H6 | 53 | 3.0 | 42.9 | 0.08 | K3 | H6 |
| 83T-380K2 | 83T-380H6 | 38 | 3.0 | 29.7 | 0.05 | K3 | H6 |
| 83T-250K2 | 83T-250L5 | 25 | 3.0 | 19.8 | 0.04 | K2 | L5 |
| 83T-167K4 | | 167 | 2.5 | 75.9 | 0.14 | K4 | |
| 83T-111K4 | | 110 | 3.0 | 75.9 | 0.09 | K4 | |
| 83T-770K3 | 83T-770H6 | 77 | 3.0 | 59.4 | 0.08 | K3 | H6 |
| 83T-190K3 | | 19 | 4.5 | 32 ⁽³⁾ | 0.02 | K3 | |

| PGK | A | B | C | D | E | F |
|-----|----------------------|----------------------|---------------------|----------------------|----------------------|----------------------|
| L2 | <u>.340</u> 8.64 | <u>.340</u> 8.64 | <u>.270</u> 6.86 | <u>.260</u> 6.60 | <u>.300</u> 7.62 | <u>.270</u> 6.86 |
| L3 | <u>.435</u> 11.05 | <u>.440</u> 11.18 | <u>.360</u> 9.14 | <u>.350</u> 8.89 | <u>.400</u> 10.16 | <u>.360</u> 9.14 |
| L7 | <u>.565</u> 14.35 | <u>.570</u> 14.48 | <u>.360</u> 9.14 | <u>.450</u> 11.43 | <u>.520</u> 13.21 | <u>.460</u> 11.68 |
| L4 | <u>.600</u> 15.24 | <u>.620</u> 15.75 | <u>.340</u> 8.64 | <u>.550</u> 12.7 | <u>.550</u> 13.97 | <u>.510</u> 12.95 |
| L5 | <u>.670</u> 17.02 | <u>.700</u> 17.78 | <u>.390</u> 9.91 | <u>.580</u> 14.73 | <u>.620</u> 15.75 | <u>.590</u> 14.99 |

NOTE:

Coil must clear seating plane by:0.10/0.25 min
Unless otherwise specified,

All tolerances are \pm .010/0.25