

HTE Series

High Voltage / Thick Film Resistors

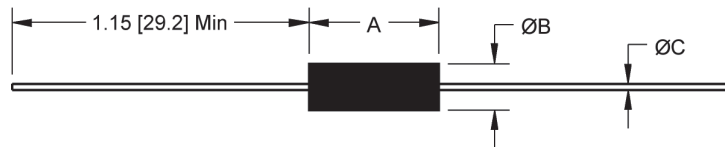


- Resistances from 1kOhms to 100MOhms
- Power Rating 0.7 to 15Watts
- Resistance Tolerances to $\pm 1\%$
- Low TCR: $\pm 100\text{ppm}/^\circ\text{C}$ Standard
- Voltage Ratings to 48KV
- Non-Inductive Design
- SMD upon request



SPECIFICATIONS

| Type | Wattage Rating (Watts) | Resistance Range (Ohm) | Dimensions (special dimensions possible) | | | Maximum Working Voltage (KV ACrms)) |
|--------|-----------------------------|---------------------------|---|--|---|---|
| | | | A $\pm 0.062"$ [$\pm 1.6\text{mm}$] | B $\pm 0.031"$ [$\pm 0.8\text{mm}$] | C $\pm 0.002"$ [$\pm 0.05\text{mm}$] | |
| HTE15 | 0.7 | 1K - 100M | 0.590 [15.0] | 0.197 [5.0] | 0.032 [0.8] | 2.5 |
| HTE19 | 1 | 1K - 100M | 0.748 [19.0] | 0.197 [5.0] | 0.032 [0.8] | 3.5 |
| HTE24 | 2 | 1K - 100M | 0.944 [24.0] | 0.314 [8.0] | 0.040 [1.0] | 5.5 |
| HTE25 | 1.2 | 1K - 100M | 1.00 [25.4] | 0.197 [5.0] | 0.032 [0.8] | 5.5 |
| HTE39 | 3 | 1K - 100M | 1.535 [39.0] | 0.314 [8.0] | 0.040 [1.0] | 10 |
| HTE52 | 5 | 1K - 100M | 2.05 [52.0] | 0.314 [8.0] | 0.040 [1.0] | 15 |
| HTE76 | 7.5 | 2K - 100M | 2.99 [76.0] | 0.354 [9.0] | 0.040 [1.0] | 22.5 |
| HTE102 | 10 | 2K - 100M | 4.02 [102] | 0.354 [9.0] | 0.040 [1.0] | 32 |
| HTE127 | 12 | 2K - 100M | 5.00 [127] | 0.354 [9.0] | 0.040 [1.0] | 40 |
| HTE152 | 15 | 2K - 100M | 5.98 [152] | 0.354 [9.0] | 0.040 [1.0] | 48 |



Ordering Information

Part Type - Resistance - Tolerance - TCR (If not standard)

Example: HTE39 10MOhm 1%

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SPECIFICATIONS (continued)

| Specification | Value |
|--|---|
| Resistance Range | 1kOhms to 100MOhms |
| Tolerances | ±1% to ±10% |
| Temperature Coefficient | ±100ppm/°C : -25°C to +125°C (Standard) ±20 to ±150 ppm/K (On Request) |
| Temperature Range | -55°C to +195°C |
| Insulation Resistance | >10000 MOhms |
| Encapsulation | Epoxy Conformal Coating / silicon or glass upon request |
| Environmental Performance (MIL-STD 202) | ΔR |
| Load Life | ±0.7% |
| Moisture Resistance | ±0.4% |
| Thermal Shock | ±0.25% |
| 5X Overload (5s) | ±0.5% |

Power Derating Curve

