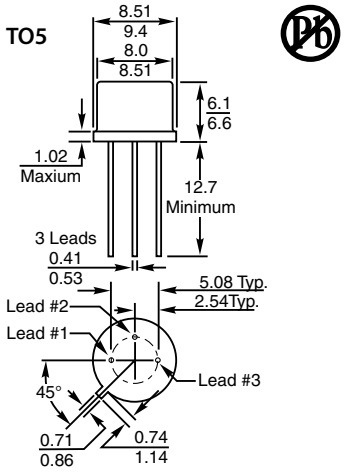
TO
Through-Hole Transistors

TO type components are through-hole transistors. These are basic electronic components developed in the last forty years. There are many additional types of TO components not listed. TO components come packaged in tubes, bulk, and tape and reel. Not all components types are available in all packaging styles. Please call for availability. Parts are available lead-free with Sn finish.

TO Through-Hole Transistors

Part Description	Number of Pins	Case Material
TO5-3-B	3	Metal
TO18-3-B	3	Metal
TO92-3-B	3	Plastic
TO220-3-B	3	Plastic

TO5



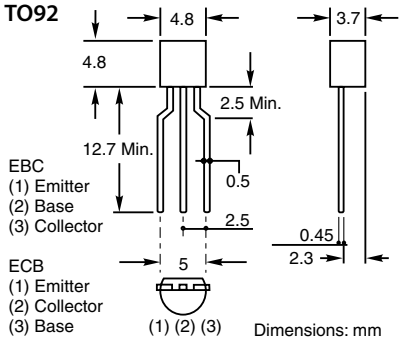
Lead Codes	Pin 1	2	3
SCR	C	G	A
Transistor	E	B	C
TRIAC	MT1	G	MT2

Dimensions: mm

Part Description System

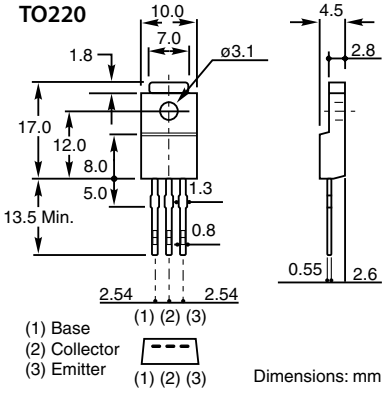
Transistor Package — TO5–3–B — Packaging
Number of Pins

TO92



Dimensions: mm

TO220



Dimensions: mm

For kits see pages 100, 104, 106, 107, 109, 111 and 112.

Axial Leaded Resistors

Axial Leaded Resistors are through-hole mounted components. The Practical Components part numbering system for this type of component is based on wattage ratings, i.e.; 1/2 watt = 1/2-W-AR-3.5x9.5MM. AR components are available in bulk, tape and reel or ammo pak.

Axial Leaded Resistors

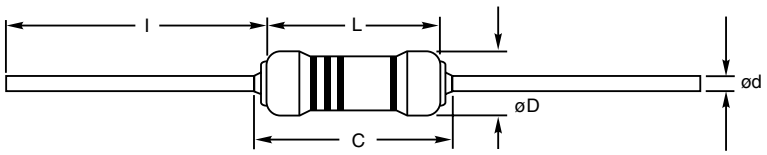
Part Description	Type	Dimensions (mm) L	C	D	I	d
1/8-W-AR-1.6X3.7mm-TR	CF 1/8	3.00 ± 0.1	3.5 Max	1.70 ± 0.2	28.0 ± 3.0	0.45 ± 0.05
1/4-W-AR-2.3X6.5mm-TR	CF 1/4	6.35 ± 0.5	7.1 Max	2.30 ± 0.3	28.0 ± 3.0	0.60 ± 0.05
1/2-W-AR-3.5X9.5mm-TR	CF 1/2	8.51 ± 0.5	9.52 Max	3.00 ± 0.3	28.0 ± 3.0	0.60 ± 0.05

Notes

- Parts are conformal coated resistors—carbon film type.
- TR = Tape and Reel
- Lead-Free and Zero-Ohm value parts available

Part Description System

Wattage Size — 1/8–W–AR–1.6x3.7mm–TR — Tape and Reel
Axial Resistor Package
Body Size



For kits see pages 100, 104, 106, 107, 109, 111 and 112.