



SYNTON-TECH CORPORATION

POWER RESISTORS

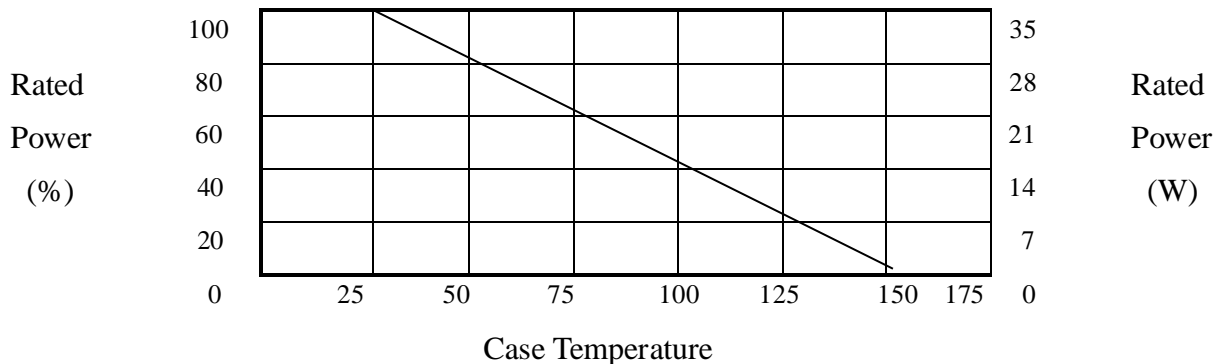
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FEATURES

- 35 Watt @25°C Case Temperature Heat Sink Mounted.
- TO-220 Style Power Package.
- Single Screw Mounting to Heat Sink.
- Low Thermal Resistance to Heat Sink @ $R_{th} < 4.28 \text{ } ^\circ\text{C/W}$.
- Molded Case for Protection and Easy to Mount.
- Isolated Case.
- Non Inductive.

APPLICATIONS

- Switching Power Supplies.
- Snubbers Circuits.
- Automated Machine Controller.
- RF Power Amplifiers.
- Low Energy Pulse Loading.
- UPS.
- Voltage Regulation.
-



APPROVED	CHECKED	DESIGNED	REMARK	DOCUMENT NO.
Carol	May	Chen		0201010264



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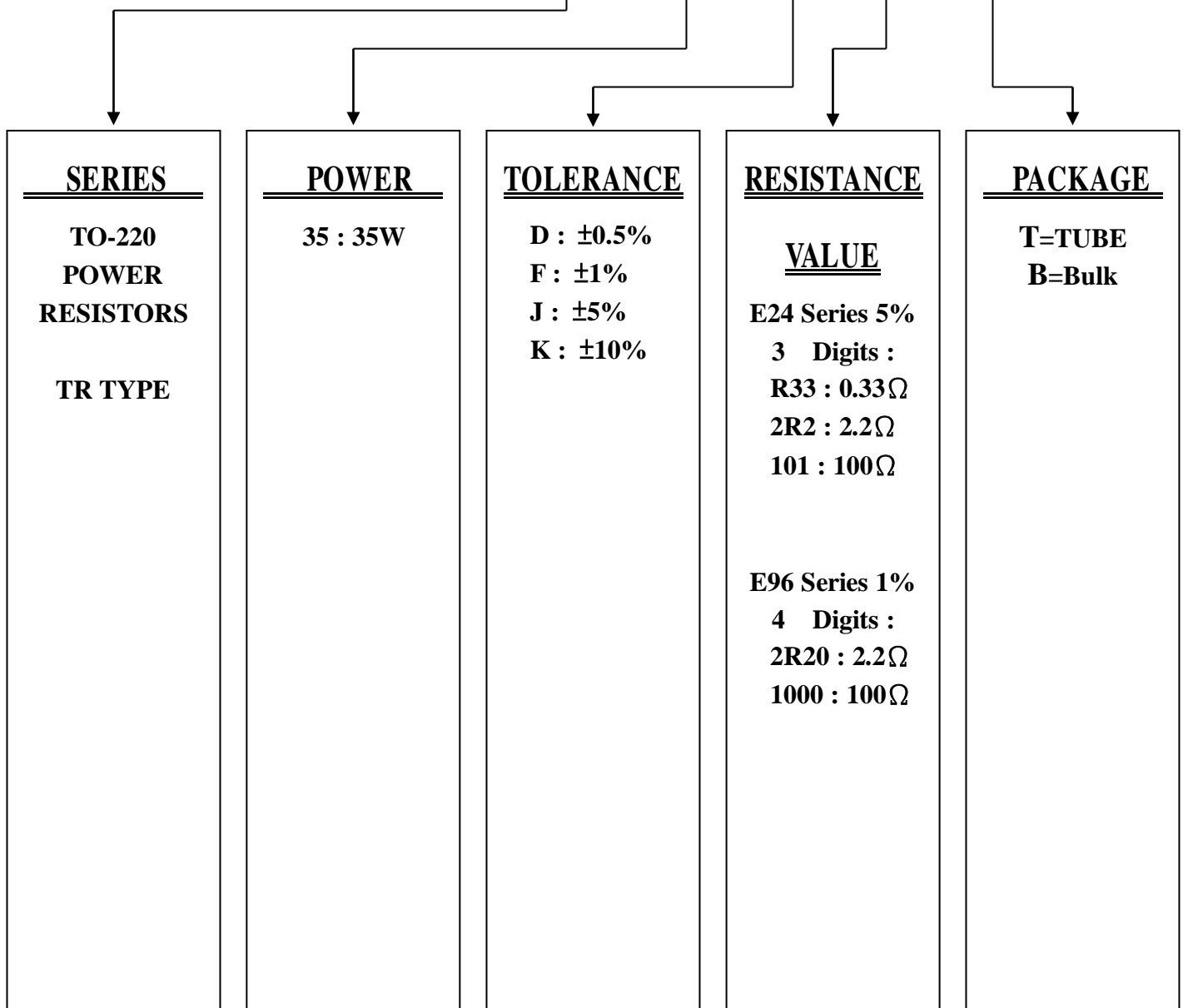
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EXPLANATIONS OF ORDERING CODE

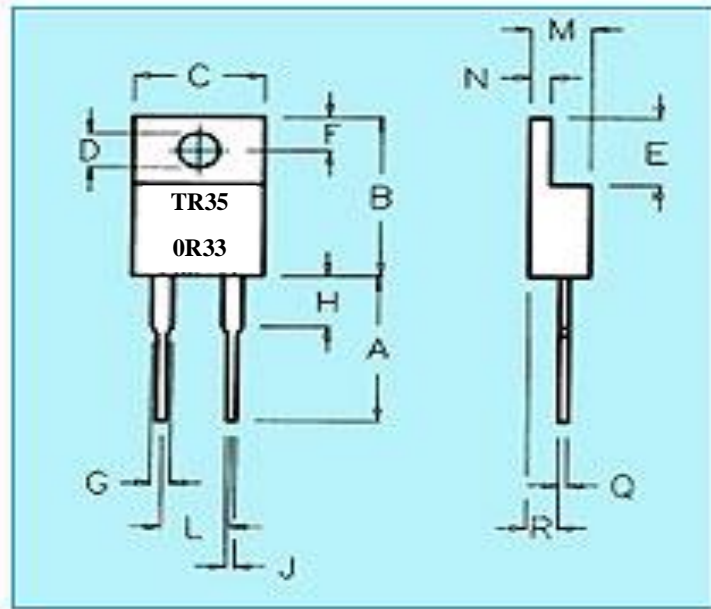
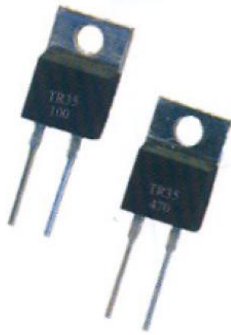
DESCRIPTION : TR 35W 5% 0.33Ω

SYNTON CODE : TR 35 J R33 B





DIMENSIONS



TR-35	Min(mm)	Max(mm)
A	12.70	14.70
B	14.50	15.00
C	9.91	10.41
D	3.55	3.75
E	5.85	6.35
F	2.85	3.05
G	1.17	1.37
H	---	4.00
J	0.70	0.86
L	4.83	5.33
M	4.06	4.82
N	1.20	1.40
Q	0.55	0.70
R	2.05	2.25



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ELECTRICAL CHARACTERISTICS SPECIFICATIONS

Resistance Range	Resistance Tolerance
0.05 Ω ~ 1 Ω	±5% ±10%
>1 Ω ~ 3 Ω	±1% ±5% ±10%
>3 Ω ~ 10 Ω	±1% ±5% ±10%
>10 Ω ~ 10K Ω	±0.5% ±1% ±5% ±10%

- Operating Voltage:350V Max.
- Dielectric Strength:1800VAC
- Insulation Resistance:10G Ω min.
- Working Temperature Range:-65°C to +150°C
- Resistance Value < 1 Ω is Available

ENVIRONMENTAL CHARACTERISTICS

Test Item	Specification	Test Method
Temperature Coefficient of Resistance	10 Ω and above, ±50ppm/°C 1 Ω and 10 Ω,(±100ppm)/°C	Referenced to 25°C, ΔR taken at +105°C
Short Time Overload	ΔR±0.3%	2 times rated power with applied voltage not to exceed 1.5 times maximum continuous operating voltage for 5 seconds.
Load Life	ΔR±1.0%	MIL-R-39009, 2000 hours at rated power.
Humidity (Steady State)	ΔR±0.5%	MIL-STD-202F, Method 103B 40°C,90-95% RH RCWV 105hours ON,0.5hours OFF, total 1000-1048 hours.
Thermal Shock	ΔR±0.3%	MIL-STD-202, Method 107G -65°C ~150°C, 100 cycle.
Terminal Strength	ΔR±0.2%	MIL-STD-202, Method 211,Cond. A(Pull test) 2.4N.
Vibration. High Frequency	ΔR±0.2%	MIL-STD-202, Method 204, Cond. D.

- Lead Material: Tinned Copper
- Maximum Torque:0.9 N-m
- Without a Heat Sink, When in Free Air at 25°C, the TR35 is Rated for 2.50W
- The Case Temperature is to be used for the Definition of the Applied Power Limit.
- The Case Temperature Measurement Must be Made with a Thermocouple Contacting the Center of the Component Mounted on the Designed Heat Sink.
- Thermal Grease Should be Applied Properly.