

Data Sheet

Customer:

Product: TO-220 Power Resistors – TR35 Series

Size: TR35

Issued Date: 15-Jul-16

Edition: REV.B4



VIKING ELECTRONICS (WUXI) CO., LTD.

No.22 Xixia Road, Machinery & Industry Park,

National Hi-Tech Industrial Development Zone

of Wuxi, Wuxi, Jiangsu Province, China

光頡電子(無錫)有限公司

Zip Code:214028

TEL:86-510-85203339

VIKING TECH CORPORATION VIKING TECH CORPORATION KAOHSIUNG BRANCH 光頡科技股份有限公司 光頡科技股份有限公司高雄分公司

No.70 Guangfu N. Rd., Hukou No.248-3, Sin-Sheng Rd., Cian-Jhen Dist., Kaohsiung,

Township, Hsinchu County 303, 806, Taiwan

TEL:886-3-5972931 TEL:886-7-8217999

Taiwan

FAX:886-3-5972935•886-3-5973494 FAX:886-7-8228229 FAX:86-510-85203667•86-510-85203977

E-mail:sales@viking.com.tw E-mail:sales@viking.com.tw E-mail:china@viking.com.tw

Produced by (QC)	Checked (QC)	Approved by (QC)	Prepared by (Sales)	Accepted by (Customer)
15-Jul-16	15-Jul-16	15-Jul-16	15-Jul-16	,
Susan Huang	J.C. Liu	J.C. Liu		

TO-220 Power Resistors- 35 Watts



TO-220 Power Resistors – TR35 Series



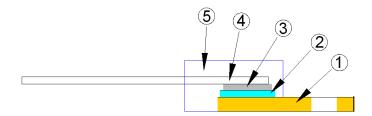
Features

- -35 watts at 25°C case temperature heat sink mounted
- -TO-220 style power package
- Single screw mounting to heat sink
- Molded case for protection and easy to mount
- Electrically isolated case
- Non-Inductive design

Applications

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

Construction

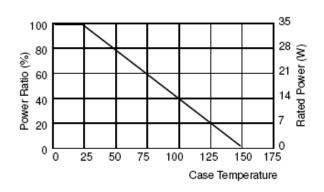


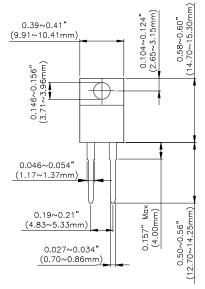
1	Flange	4	Lead
2	Alumina Substrate	(5)	Molding
3	Resistor Layer		

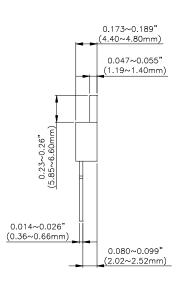
Dimensions

Туре	Weight (g) (1000pcs)	
TR35	1902	

Derating Curve







www.viking.com.tw

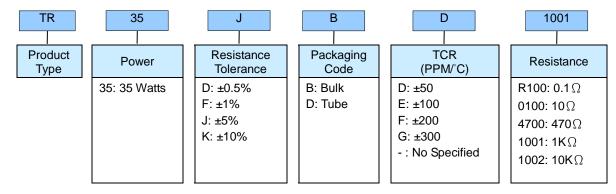
For detail questions, contact : sales@viking.com.tw

Downloaded From Oneyac.com

TO-220 Power Resistors- 35 Watts



■Part Numbering



■ Electrical Characteristics Specifications

Item		Resistance Range			TCR (PPM/°C)
Туре	±0.5%	±1%	±5%	±10%	()
			0.05Ω –0.91Ω		No Specified
		1Ω –2.7Ω			±100 ±300
TR35		3Ω -10Ω			±100 ±200
		>10Ω –10ΚΩ			

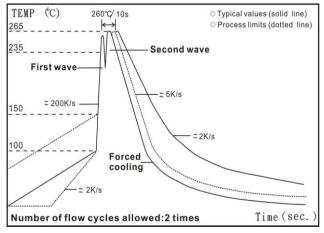
Operating Voltage: 350V Max.Dielectric Strength: 1800VAC

■ Insulation Resistance: 10GΩ min.

■ Working Temperature Range: -65°C to +150°C

■ Resistance Value < 1Ω is available

■Soldering Condition



Wave Soldering (Flow Soldering)

(1) Time of wave soldering at maximum temperature point 260°C: 10s

(2) Time of soldering iron at maximum temperature point 410°C: 5s

Revision: 15-Jul-2016

Edition: REV.B4

TO-220 Power Resistors- 35 Watts



Environmental Characteristics

Item	Requirement	Test Method
Temperature Coefficient of Resistance (T.C.R.)	As Spec.	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%	2,000 hours at rated power
Damp Heat with Load	ΔR±0.5%	40±2°C, 90~95% R.H., RCWV for 1000 hrs with 1.5 hrs "ON" and 0.5 hr "OFF"
Solderability	90% min. coverage	245±5°C for 3 seconds
Thermal Shock	ΔR±0.3%	-65°C~150°C, 100 cycles
Terminal Strength	ΔR±0.2%	(Pull Test) 2.4N
Vibration, High Frequency	ΔR±0.2%	20g peak

- 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
- RCWV(Rated Continuous Working Voltage)= $\sqrt{(P^*R)}$ or Max. Operating Voltage whichever is lower.

Edition : REV.B4 Revision: 15-Jul-2016

Downloaded From Oneyac.com

TR35 Series

TO-220 Power Resistors- 35 Watts



REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version B2	Sep 30,2014	ECN-14017	Product's Dimensions Updated
Version B3	Apr 30,2015	-	- Increase Tube Package Code
Version B4	Jul 15,2016	-	- Resistance range 1Ω -2.7 Ω increase TCR100 Specifications
			- Adjust the resistance range

Edition : REV.B4 Revision: 15-Jul-2016 单击下面可查看定价,库存,交付和生命周期等信息

>>VIKING(光颉)