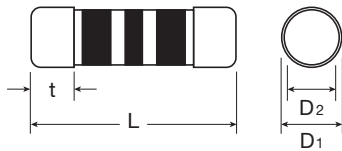


MELF Thin Film Chip Resistors –

Features

- Tantalum Alloy Thin Film Chip Resistors
- Leadless resistors of superior capabilities and stability made utilizing high molten tantalum alloy
- Excellent ohmic contact due to plated multilayer electrodes
- Mechanical body is extremely strong owing to cylindrical shape. Well suited for rough environmental operations

Dimensions



Unit: mm

Series	L	t	D1	D2
TRN55	3.5 ± 0.1	0.3 min.	1.4 ± 0.1	1.3 ± 0.1
TRN60	5.9 ± 0.2	0.5 min.	2.2 ± 0.1	2.1 ± 0.1

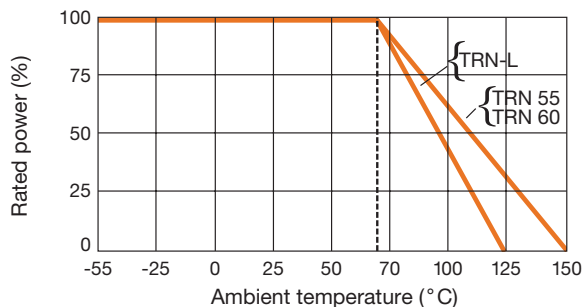
Specifications

Requirements	TRN55	TRN60
Rating Ambient Temp.	70°C	70°C
Power Rating	1/4W	1W
Max. Working V.	150V	250V
Max. Overload V.	300V	500V
Operating Temp. Range	-55°C ~ 155°C	-55°C ~ 155°C
Resistance Range*	10.0Ω ~ 1MegΩ (10.0Ω ~ 2 MegΩ in 50 ppm -1%)	10.0Ω ~ 1MegΩ
Tolerance	B.C.D.F.G.J.	B.C.D.F.G.J.
T.C.R PPM/°C	E (±25ppm), C(±50ppm), K(±100ppm)	

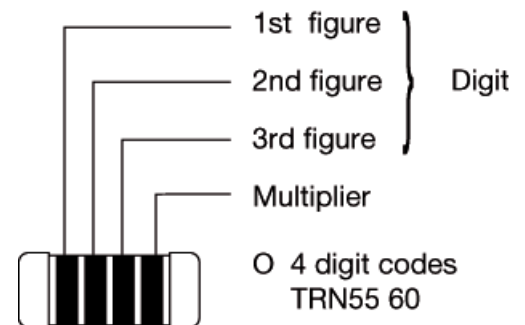
* Consult your sales representative for values available by TCR, tolerance, and values under 10Ω..

Jumper chip is also available.

DERATING CURVE



COLOR CODING



All components in this section are RoHS compliant per the EU directives and definitions.

5900 Shepherd Mountain Cove • Austin, TX 78730
 Phone: 512 / 794-0081 • Fax: 512 / 794-0087 • Toll Free: 800 / 950-8365
 e-mail: sales@venkel.com • www.venkel.com

TRN Series

Test method JIS-C5213

Characteristics

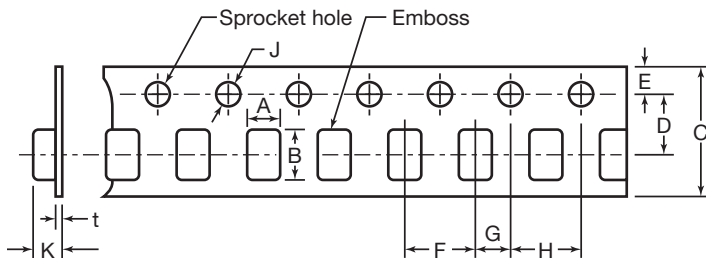
Requirements	Characteristics
Short-time Overload	$\pm(0.5\% \pm 0.05 \Omega)$
Temperature Cycling	$\pm(0.5\% \pm 0.05 \Omega)$
Resistance to Soldering Heat	$\pm(0.5\% \pm 0.05 \Omega)$
Moisture Resistance	$\pm(1.0\% \pm 0.05 \Omega)$
Load Life	$\pm(1.0\% \pm 0.05 \Omega)$
Body Strength	$\pm(1.0\% \pm 0.05 \Omega)$
Terminal Strength	$\pm(1.0\% \pm 0.05 \Omega)$
Solderability	Over 80%
Resistance to Solvents	No evidence of mechanical damage

Taping Specifications

Unit: mm

Series	A	B	C	D	t	K
TRN55	0.2 1.6	0.1 3.7	0.2 8.0	0.05 3.5	0.05 0.2	0.05 1.6
TRN60	0.2 2.4	0.1 6.2	0.2 12.0	0.1 5.5	0.05 0.3	0.1 2.5

E	F	G	H	J
0.1 1.75	0.1 4.0	0.1 2.0	0.1 4.0	0.1 0 1.5



How To Order

TRN55	C	F	1001	TR
Series	T.C.R PPM/°C	Tolerance %	Resistance	Packaging
55	K	J	1001=1K ohm (1%); E-96 Series	TR
60	C	G	203 = 20K ohm (2%, 5%); E-24 Series	Tape & Reel
1/4W	±100	F		
1W	±50	D		1 Reel
	±25	C		p.c.s
		B		TRN55 3000
				TRN60 2000

Standard termination finish for this product is 100% matte Tin (Sn)

TRN-L SERIES

Ultra Low Value MELF Chip Resistors

Requirements	TRN55L	TRN60L
Rating Ambient Temp.	70°C	
Power Rating	1/4W	1W
Operating Temp. Range	-55°C ~ 125°C	
Resistance Range	0.20Ω ~ 9.1Ω	0.20Ω ~ 9.1Ω
Tolerance	*G, J, K	*G, J, K
T.C.R PPM/°C	±200(L)	

* G — Tolerance for 1Ω and above only.

Other detailed specifications correspond to TRN's spec.