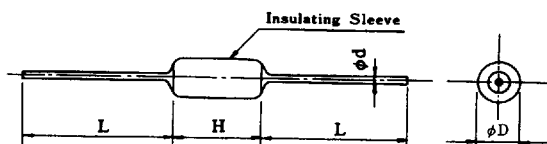




METAL OXIDE VARISTORS TNR®

A-SERIES (High Varistor Voltage (Axial Lead Type))



Type	4 A Type	10 A Type
ϕD	4 ± 1	10 ± 1
L	25min	30min
ϕd	0.6	1

(mm)

Model Number	Maximum Applied Voltage (Continuous)		Maximum Peak Current (8/20 μ s)	Maximum Energy (2ms)	Rated Wattage	Maximum Clamping Voltage	Varistor Voltage at 1mA DC	H Max.
4 A	DC V	AC V _{RMS}	A	J	W	V _{2A}	V _{1mA}	mm
TNR4A122K	880	620		1.8		2,200	1,200(1,080 ~ 1,320)	11MAX
TNR4A152K	1,100	780	40/1Time	1.0	0.05	2,600	1,500(1,350 ~ 1,650)	12MAX
TNR4A182K	1,300	930	20/2Times	1.5		3,100	1,800(1,620 ~ 1,980)	13MAX
TNR4A202K	1,450	1,040		1.0		3,500	2,000(1,800 ~ 2,200)	15MAX
10A	DC V	AC V _{RMS}	A	J	W	V _{2A}	V _{1mA}	mm
TNR10A472K	3,100	2,200		10		8,700	4,700(4,230 ~ 5,170)	40MAX
TNR10A562K	3,700	2,600		10	10,000	5,600(5,040 ~ 6,160)		
TNR10A682K	4,500	3,200	100/1Time	10	0.5	12,000	6,800(6,120 ~ 7,480)	50MAX
TNR10A822K	5,500	3,900	50/2Times	10		16,000	8,200(7,380 ~ 9,020)	
TNR10A103K	6,700	4,700		15		19,500	10,000(9,000 ~ 11,000)	55MAX
TNR10A123K	8,100	5,700		15	21,600	12,000(10,800 ~ 13,200)		

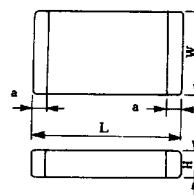
MLV-SERIES (Multilayer Chip Type For Direct Surface Mounting)

- Operating temperature range: $-40 \sim +125^{\circ}\text{C}$
- Storage temperature range: $-50 \sim +150^{\circ}\text{C}$
- Features**
 - Excellent clamping voltage characteristic and fast response time ($<10\text{nsec}$).
 - Multilayer construction for small size.
 - EIA standard packaging.
- Applications:**
 - Load dump suppression in automotive or battery applications
 - Surge suppression in automotive or battery applications



MLV SPECIFICATION

P/N	SIZE		VARISTOR VOLTAGE V _{10mA}	CLAMPING VOLTAGE	ENERGY (2 msec)	PEAK CURRENT (8/20 μ s)
	EIA	L x W (mm)				
TNR20MH270K	0805	(2.0 x 1.25)	27 $\pm$ 10%	30 ~ 40 at 0.5 A	0.5 J	10 A
TNR30MH270K	1206	(3.2 x 1.6)	27 $\pm$ 10%	30 ~ 40 at 1.0 A	1.0 J	20A
TNR40MH270K (TNR5C270S700)	1210	(3.2 x 2.5)	27 $\pm$ 10%	30 ~ 40 at 1.5 A	2.1 J	50A
TNR50MH270K	1812	(4.5 x 3.2)	27 $\pm$ 10%	30 ~ 40 at 2.5 A	10.0J	120A
TNR70MH270K	--	(7.5 x 6.3)	27 $\pm$ 10%	30 ~ 40 at 10 A	15.0 J	250 A



NOTE: Consult factory for a and H dimensions.