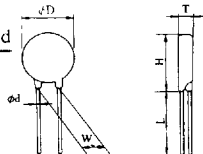




# METAL OXIDE VARISTORS TNR®

## G-SERIES

(Disk Type, Radial Lead)



unit: mm

Model Number	φD	H Max	T Max	L Min	φd	W ± 1
TNR7G180K	7 ± 1	11	5	25	0.5	5
TNR7G271K			7			
TNR7G331K			7			
TNR7G471K			7			
TNR9G150K	9 ± 1	13	5	25	0.5	5
TNR9G271K			7			
TNR9G331K			7			
TNR9G471K			7			
TNR12G150K	13.5	16.5	5	25	0.5	5
TNR12G271K			7			
TNR12G331K			7			
TNR12G681K			7			
TNR12G751K	14	17.0	7	25	0.8	7.5
TNR12G102K			8.5			
TNR12G112K			9			
TNR12G122K			10			
TNR12G152K	15	18	9	25	0.8	7.5
TNR12G182K			10			
TNR15G150K			12			
TNR15G182K			14			
TNR15G150K	15 ± 1	19	5	25	0.8	7.5
TNR15G271K			7			
TNR15G331K			7			
TNR15G681K			7			
TNR15G751K	17Max	20	7	25	0.8	7.5
TNR15G102K			8.5			
TNR15G112K			9			
TNR15G122K			10.5			
TNR15G152K	18Max	21	9	25	0.8	10
TNR15G182K			10.5			
TNR23G180K			12.5			
TNR23G270K			14.5			
TNR23G180K	19Max	22	5	25	0.8	10
TNR23G271K			7			
TNR23G331K			7			
TNR23G681K			7			
TNR23G751K	25	28	7	25	0.8	10
TNR23G102K			8.5			
TNR23G112K			9.5			
TNR23G122K			11			
TNR23G152K	26	29	9.5	25	0.8	10
TNR23G182K			11			
TNR23G271K			13			
TNR23G331K			15			

Model Number	Maximum Applied Voltage (Continuous)		Maximum Peak Current (8/20µs)	Maximum Energy 2msec	Rated Wattage	Clamping Voltage		Capacitance (Typical 1kHz)	Varistor Voltage
	AC (Vrms)	DC (V)				(A)	(J)		
TNR12G150K	8	12	1.0	1.0	0.05	5	30	10,500	150 13 - 170
TNR12G180K	10	14	1.5	1.5			35	9,000	180 16 - 200
TNR12G220K	14	18	2.0	2.0			43	8,200	220 20 - 240
TNR12G270K	17	22	2.5	2.5			53	6,900	270 24 - 300
TNR12G330K	20	26	3.0	3.0	65	5,900	330 30 - 360		
TNR12G390K	25	30	3.5	3.5	77	5,100	390 35 - 430		
TNR12G470K	30	37	4.5	4.5	93	4,400	470 42 - 520		
TNR12G560K	35	44	5.5	5.5	110	3,800	560 50 - 620		
TNR12G680K	40	55	6.5	6.5	135	3,200	680 61 - 750		
TNR12G820K	55	65	8.0	8.0	135	1,200	820 74 - 900		
TNR12G101K	65	85	10.0	10.0	165	1,050	1000 90 - 1100		
TNR12G121K	70	100	12.0	12.0	195	910	1200 108 - 1320		
TNR12G151K	90	125	16.0	16.0	245	770	1500 135 - 1650		
TNR12G181K	110	145	18.0	18.0	295	670	1800 162 - 1980		
TNR12G201K	130	170	20.0	20.0	330	620	2000 180 - 2200		
TNR12G221K	145	180	25.0	25.0	360	570	2200 198 - 2420		
TNR12G241K	150	200	25.0	25.0	390	530	2400 216 - 2640		
TNR12G271K	170	225	30.0	30.0	440	490	2700 243 - 2970		
TNR12G331K	210	270	35.0	35.0	540	420	3300 297 - 3630		
TNR12G361K	235	300	35.0	35.0	590	400	3600 324 - 3960		
TNR12G391K	250	320	40.0	40.0	640	370	3900 351 - 4290		
TNR12G431K	270	350	45.0	45.0	700	340	4300 387 - 4730		
TNR12G471K	305	385	1.300/2 Times	45.0	765	320	4700 423 - 5170		
TNR12G561K	350	460	45.0	45.0	910	280	5600 504 - 6160		
TNR12G621K	380	505	45.0	45.0	1,015	260	6200 558 - 6820		
TNR12G681K	420	560	45.0	45.0	1,110	240	6800 612 - 7480		
TNR12G751K	460	615	50.0	50.0	1,230	225	7500 675 - 8250		
TNR12G821K	515	670	55.0	55.0	1,340	210	8200 738 - 9020		
TNR12G911K	550	745	60.0	60.0	1,500	200	9100 819 - 1,0010		
TNR12G102K	630	825	65.0	65.0	1,630	180	1,000 900 - 1,1000		
TNR12G112K	680	895	70.0	70.0	1,815	170	1,100 990 - 1,2100		
TNR12G122K	720	980	75.0	75.0	1,950	160	1,200 1,080 - 1,3200		
TNR12G152K	860	1,220	80.0	80.0	2,440	135	1,500 1,350 - 1,6500		
TNR12G182K	1,000	1,465	85.0	85.0	2,970	115	1,800 1,620 - 1,9800		
TNR15G150K	8	12	5.0	5.0	0.1	10	30	12,000	150 13 - 170
TNR15G180K	10	14	5.0	5.0			35	11,500	180 16 - 200
TNR15G220K	14	18	5.0	5.0			43	11,000	220 20 - 240
TNR15G270K	17	22	5.0	5.0			53	10,000	270 24 - 300
TNR15G330K	20	26	6.0	6.0	65	8,500	330 30 - 360		
TNR15G390K	25	30	7.0	7.0	77	7,500	390 35 - 430		
TNR15G470K	30	37	10.0	10.0	93	6,500	470 42 - 520		
TNR15G560K	35	44	10.0	10.0	110	5,600	560 50 - 620		
TNR15G680K	40	55	12.0	12.0	135	4,800	680 61 - 750		
TNR15G820K	50	65	15.0	15.0	135	1,700	820 74 - 900		
TNR15G101K	60	85	20.0	20.0	165	1,470	1000 90 - 1100		
TNR15G121K	75	100	20.0	20.0	195	1,280	1200 108 - 1320		
TNR15G151K	95	125	25.0	25.0	245	1,070	1500 135 - 1650		
TNR15G181K	110	145	30.0	30.0	295	930	1800 162 - 1980		
TNR15G201K	130	170	35.0	35.0	330	850	2000 180 - 2200		
TNR15G221K	140	180	40.0	40.0	360	800	2200 198 - 2420		
TNR15G241K	150	200	40.0	40.0	390	740	2400 216 - 2640		
TNR15G271K	175	225	50.0	50.0	440	680	2700 243 - 2970		
TNR15G331K	210	270	60.0	60.0	540	590	3300 297 - 3630		
TNR15G361K	230	300	65.0	65.0	590	540	3600 324 - 3960		
TNR15G391K	250	320	70.0	70.0	640	510	3900 351 - 4290		
TNR15G431K	275	350	75.0	75.0	700	480	4300 387 - 4730		
TNR15G471K	300	385	80.0	80.0	765	450	4700 423 - 5170		
TNR15G561K	350	460	85.0	85.0	910	390	5600 504 - 6160		
TNR15G621K	385	505	85.0	85.0	1,015	360	6200 558 - 6820		
TNR15G681K	420	560	90.0	90.0	1,110	340	6800 612 - 7480		
TNR15G751K	460	615	100.0	100.0	1,230	310	7500 675 - 8250		
TNR15G821K	510	670	110.0	110.0	1,340	280	8200 738 - 9020		
TNR15G911K	550	745	120.0	120.0	1,500	265	9100 819 - 1,0010		
TNR15G102K	625	825	130.0	130.0	1,630	250	1,000 900 - 1,1000		
TNR15G112K	680	895	140.0	140.0	1,815	230	1,100 990 - 1,2100		
TNR15G122K	720	980	150.0	150.0	1,950	215	1,200 1,080 - 1,3200		
TNR15G152K	860	1,220	160.0	160.0	2,440	185	1,500 1,350 - 1,6500		
TNR15G182K	1,000	1,465	170.0	170.0	2,970	150	1,800 1,620 - 1,9800		
TNR23G180K	10	14	10.0	10.0	0.2	20	35	31,000	180 16 - 200
TNR23G220K	14	18	13.0	13.0			43	30,000	220 20 - 240
TNR23G270K	17	22	15.0	15.0			53	27,000	270 24 - 300
TNR23G330K	20	26	20.0	20.0			65	23,000	330 30 - 360
TNR23G390K	25	30	24.0	24.0	77	20,000	390 35 - 430		
TNR23G470K	30	37	30.0	30.0	93	17,500	470 42 - 520		
TNR23G560K	35	44	35.0	35.0	110	15,000	560 50 - 620		
TNR23G680K	40	55	40.0	40.0	135	13,000	680 61 - 750		
TNR23G820K	50	65	45.0	45.0	135	4,600	820 74 - 900		
TNR23G101K	60	85	30.0	30.0	165	3,900	1000 90 - 1100		
TNR23G121K	75	100	40.0	40.0	195	3,400	1200 108 - 1320		
TNR23G151K	95	125	50.0	50.0	245	2,900	1500 135 - 1650		
TNR23G181K	110	145	60.0	60.0	295	2,500	1800 162 - 1980		
TNR23G201K	130	170	70.0	70.0	330	2,300	2000 180 - 2200		
TNR23G221K	140	180	75.0	75.0	360	2,150	2200 198 - 2420		
TNR23G241K	150	200	80.0	80.0	390	2,000	2400 216 - 2640		
TNR23G271K	175	225	90.0	90.0	440	1,850	2700 243 - 2970		
TNR23G331K	210	270	110.0	110.0	540	1,600	3300 297 - 3630		
TNR23G361K	230	300	120.0	120.0	590	1,500	3600 324 - 3960		
TNR23G391K	250	320	130.0	130.0	640	1,400	3900 351 - 4290		
TNR23G431K	275	350	140.0	140.0	700	1,300	4300 387 - 4730		
TNR23G471K	300	385	150.0	150.0	765	1,200	4700 423 - 5170		
TNR23G561K	350	460	150.0	150.0	910	1,050	5600 504 - 6160		
TNR23G621K	385	505	150.0	150.0	1,015	980	6200 558 - 6820		
TNR23G681K	420	560	160.0	160.0	1,110	900	6800 612 - 7480		
TNR23G751K	460	615	175.0	175.0	1,230	850	7500 675 - 8250		
TNR23G821K	510	670	190.0	190.0	1,340	800	8200 738 - 9020		
TNR23G911K	550	745	215.0	215.0	1,500	720	9100 819 - 1,0010		
TNR23G102K	625	825	230.0	230.0	1,630	680	1,000 900 - 1,1000		
TNR23G112K	680	895	250.0	250.0	1,815	640	1,100 990 - 1,2100		
TNR23G122K	720	980	270.0	270.0	1,950	590	1,200 1,080 - 1,3200		
TNR23G152K	860	1,220	300.0	300.0	2,440	500	1,500 1,350 - 1,6500		