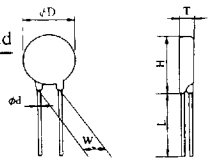
G-SERIES
(Disk Type, Radial Lead



unit mm

	φD	H Max	T Max	L Min	φd	W ±1
TNR7G180K ~ TNR7G271K	7 ± 1	11	5	25	0.5	5
TNR7G331K ~ TNR7G471K			7			
TNR9G150K ~ TNR9G271K	9 ± 1	13	5	25	0.5	5
TNR9G331K ~ TNR9G471K			7			
TNR12G150K ~ TNR12G271K	13.5	16 5	5	25	0.8	7.5
TNR12G331K ~ TNR12G681K	14	17.0	7			
TNR12G751K ~ TNR12G102K			8.5			
TNR12G112K	15	18	9			
TNR12G122K			10			
TNR12G152K	16	19	12			
TNR12G182K			14			
TNR15G150K ~ TNR15G271K	15± 1	19	5	25	0 8	7 5
TNR15G331K ~ TNR15G681K	17Max	20	7			
TNR15G751K ~ TNR15G102K	17Max		8 5			
TNR15G112K	18Max	21	9			
TNR15G122K			10 5			
TNR15G152K	19Max	22	12 5			
TNR15G182K			14 5			
TNR23G180K ~ TNR23G271K	24	27	5	25	0.8	10
TNR23G331K ~ TNR23G681K	25	28	7			
TNR23G751K ~ TNR23G102K			8.5			
TNR23G112K	26	29	9.5			
TNR23G122K			11			
TNR23G152K	27	30	13			
TNR23G182K			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)	(W)	(A)	(V)	(pF)	V1mA (V)
TNR12G150K	8	12		1 0			30	10,500	15(13~ 17)
TNR12G180K	10	14		1 5			35	9 000	18(16 ~ 20)
TNR12G220K	14	18		2 0			43	8 200	22(20~ 24)
TNR12G270K	17	22	500/1	2 5			53	6 900	27(24~ 30)
TNR12G330K	20	26	Time	3 0	0 05	5	65	5 900	33(30 ~ 36)
TNR12G390K	25	30		3 5			77	5 100	39(35~ 43)
TNR12G470K	30	37	250/2	4 5			93	4 400	47(42~ 52)
TNR12G560K	30	44	Time	5 5			110	3 800	56(50~ 62)
TNR12G680K	40	55		6 5			135	3 200	68(61~ 75)
TNR12G820K	55	65		8 0			135	1 200	82(74 ~ 90)
TNR12G101K	65	85		10 0			165	1 050	100(90~ 110)
TNR12G121K	70	100		12 0			195	910	120(108~ 132
TNR12G151K	90	125		16 0			245	770	150(135~ 165)
TNR12G181K	110	145		18 0			295	670	180(162~ 198)
TNR12G201K	130	170		20 0			330	620	200(180 ~ 220)
TNR12G221K	145	180		25 0			360	570	220(198~ 242)
TNR12G241K	150	200		25 0			390	530	240(216~ 264)
TNR12G271K	170	225		30 0			440	490	270(243~ 297)
TNR12G331K	210	270		35 0			540	420	330(297~ 363)
TNR12G361K	235	300	2 500/1	35 0			590	400	360(324 ~ 396)
TNR12G391K	250	320	Time	40 0			640	370	390(351~ 429)
TNR12G431K	270	350		45 0	0 4	25	700	340	430(387~ 473)
TNR12G471K	305	385	1 300/2	45 0			765	320	470(423~ 517)
TNR12G561K	350	460	Times	45 0			910	280	560(504~ 616)
TNR12G621K	380	505		45 0			1 015	260	620(558 ~ 682)
TNR12G681K	420	560		45 0			1 110	240	680(612 ~ 748)
TNR12G751K	460	615		50 0			1 230	225	750(675 ~ 825)
TNR12G821K	515	670		55 0			1 340	210	820(738 ~ 902)
TNR12G911K	550	745		60 0			1 500	200	910(819~1 001)
TNR12G102K	630	825		65 0			1 630	180	1 000(900~ 1 100)
TNR12G112K	680	895		70 0			1 815	170	1,100(990 ~1,210)
TNR12G122K	720	980		73 0			1,950	160	1,200(1,080~1 320)
TNR12G152K	860	1 220		80 0			2 440	135	1 500(1 350~ 1,650
TNR12G182K	1 000	1 465		85 0			2,970	115	1,800(1,620~1,980)
	AC (Vrms	DC (V)	(A)	(J)	W)	(A)	(V)	(pF)	V1mA (V)
TNR15G150K	8	12		5 0			30	12,000	15(13~ 17)
TNR15G180K	10	14		5 0			35	11 500	18 16~ 20
TNR15G220K	14	18	1,000/1	5 0			43	11,000	22 20 ~ 24
TNR15G270K	17	22	Time	5 0			53	10 000	27(24~ 30)
TNR15G330K	20	26		6 0	0 1	10	65	8,500	33 30 ~ 36)
TNR15G390K	25	30	500/2	10 0			77	7 500	39 35~ 43
TNR15G470K	30	37	Times	10 0			93	6 500	47(42~ 52
TNR15G560K	35	44		10 0			110	5,600	56 50 ~ 62)
TNR15G680K	40	55		12 0			135	4,800	68 61~ 75)
TNR15G820K	50	65		15 0			135	1,700	82(74~ 90)
TNR15G101K	60	85		20 0			165	1,470	100(90~ 110)
TNR15G121K	75	100		20 0			195	1 280	120(108~ 132)
TNR15G151K	95	125		25 0			245	1,070	150(135 ~ 165)
TNR15G181K	110	145		30 0			295	930	180(162~ 198)
TNR15G201K	130	170		35 0			330	850	200(180~ 220)
TNR15G221K	140	180		40 0			360	800	220(198~ 242)
TNR15G241K	150	200		40 0			390	740	240(216 ~ 264)
TNR15G271K	175	225		50 0			440	680	270(243 ~ 297)
TNR15G331K	210	270		60 0			540	590	330(297~ 363)
TNR15G361K	230	300	4 500/1	65 0			590	540	360(324~ 396)
TNR15G391K	250	320	Time	70 0			640	510	390(351 ~ 429)
TNR15G431K	275	350		75 0	0 6	50	700	480	430(387~ 473)
TNR15G471K	300	385	2 500/2	80 0			765	450	470(423~ 517)
TNR15G561K	350	460	Times	85 0			910	390	560(504 ~ 616)
TNR15G621K	385	505		85 0			1 015	360	620(558~ 682)
TNR15G681K	420	560		90 0			1 110	340	680(612~ 748)
TNR15G751K	460	615		100 0			1,230	310	750(675 ~ 825)
TNR15G821K	510	670		110 0			1,340	280	820(738~ 902)
TNR15G911K	550	745		120 0			1 500	265	910(819~ 1 001)
TNR15G102K	625	825		130 0			1,630	250	1,000(900 ~1 100)
TNR15G112K	680	895		140 0			1,815	230	1,100(990~1 210)
TNR15G122K	720	980		150 0			1 950	215	1 200(1 080~ 1 320)
TNR15G152K	860	1 220		160 0			2,440	185	1,500(1,350 ~1 650)
TNR15G182K	1,000	1,465		170 0			2,970	150	1,800(1,620~1 980)
	AC (Vrms)	DC (V)	(A)	(J)	(W)	(A)	(V)	pF	V1mA(V)
TNR23G180K	10	14		10 0			35	31 000	18(16~ 20)
TNR23G220K	14	18		13 0			43	30 000	22(20~ 24)
TNR23G270K	17	22	2 000/1	15 0			53	27 000	27(24~ 30)
TNR23G330K	20	26	Time	20 0			65	23,000	33(30 ~ 36)
TNR23G390K	25	30		24 0	0 2	20	77	20 000	39(35~ 43)
TNR23G470K	30	37	1 000/2	30 0			93	17 500	47(42~ 52)
TNR23G560K	35	44	Times	35 0			110	15 000	56(50~ 62)
TNR23G680K	40	55		40 0			135	13 000	68(61~ 75)
TNR23G820K	50	65		27 0			135	4,600	82(74~ 90)
TNR23G101K	60	85		30.0			165	3 900	100(90 ~ 110)
TNR23G121K	75	100		40 0			195	3,400	120(108~ 132)
TNR23G151K	95	125		50 0			245	2 900	150(135~ 165)
TNR23G181K	110	145		60.0			295	2 500	180(162 198)
TNR23G201K	130	170		70 0			330	2,300	200(180~ 220)
TNR23G221K	140	180		75 0			360	2 150	220(198~ 242)
TNR23G241K	150	200		80.0	1 0		390	2,000	240(216 ~ 264)
TNR23G271K	175	225		90 0			440	1,850	270(243~ 297)
TNR23G331K	210	270		110 0			540	1 600	330(297~ 363)
TNR23G361K	230	300	6 500/1	120 0			590	1 500	360(324 ~ 396)
TNR23G391K	250	320	Time	130 0			640	1 400	390(351~ 429)
TNR23G431K	275	350		140 0		100	700	1 300	430(387~ 473)
TNR23G471K	300	385	4 000/2	150 0			765	1 200	470(423~ 517)
TNR23G561K	350	460	Times	150 0			910	1 050	560(504 ~ 616)
TNR23G621K	385	505		150 0			1 015	980	620(558~ 682)
TNR23G681K	420	560		160 0			1 110	900	680(612~ 748)
TNR23G751K	460	615		175 0			1 230	850	750(675 ~ 825)
TNR23G821K	510	670		190 0			1 340	800	820(738~ 902)
TNR23G911K	550	745		215 0	1 5		1 500	720	910(819~ 1 001)
TNR23G102K	625	825		230 0			1,630	680	1,000(900 ~1,100)
TNR23G112K	680	895		250 0			1 815	640	1,100(990~1,210)
TNR23G122K	720	980		270 0			1,950	590	1 200(1,080~ 1,320)
TNR23G152K	860	1,220		300 0			2,440	500	1,500(1,350~1,650)
TNR23G182K	1,000	1,465		400 0			2,970	440	1,800(1,620~1,980)

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