

◆Ordering Information

Metal Oxide Varistors "TNR G Series" are decided to be "Retentive Products" and be replaced by our new products of V Series.

In case of your new design and/or application, please order by replacement recommendation listed in the following table.

Retentive Products			Replacement Recommendation		
TNR G Series Part No.	Maximum Peak Current 8/20 μ s (A)		TNR V Series Part No.	Maximum Peak Current 8/20 μ s (A)	
	1 time	2 times		1 time	2 times
TNR7G180K TNR7G220K TNR7G270K TNR7G330K TNR7G390K TNR7G470K TNR7G560K TNR7G680K	100	60	TNR5V180K TNR5V220K TNR5V270K TNR5V330K TNR5V390K TNR5V470K TNR5V560K TNR5V680K	250	125
TNR7G820K TNR7G101K TNR7G121K TNR7G151K TNR7G181K TNR7G201K TNR7G221K TNR7G241K TNR7G271K TNR7G331K TNR7G361K TNR7G391K TNR7G431K TNR7G471K	400	250	TNR5V820K TNR5V101K TNR5V121K TNR5V151K TNR5V181K TNR5V201K TNR5V221K TNR5V241K TNR5V271K TNR5V331K TNR5V361K TNR5V391K TNR5V431K TNR5V471K	800	600
TNR9G150K TNR9G180K TNR9G220K TNR9G270K TNR9G330K TNR9G390K TNR9G470K TNR9G560K TNR9G680K	250	125	TNR7V150K TNR7V180K TNR7V220K TNR7V270K TNR7V330K TNR7V390K TNR7V470K TNR7V560K TNR7V680K	500	250
TNR9G820K TNR9G101K TNR9G121K TNR9G151K TNR9G181K TNR9G201K TNR9G221K TNR9G241K TNR9G271K TNR9G331K TNR9G361K TNR9G391K TNR9G431K TNR9G471K TNR9G511K	1200	600	TNR7V820K TNR7V101K TNR7V121K TNR7V151K TNR7V181K TNR7V201K TNR7V221K TNR7V241K TNR7V271K TNR7V331K TNR7V361K TNR7V391K TNR7V431K TNR7V471K TNR7V511K	1750	1250

Retentive Products			Replacement Recommendation		
TNR G Series Part No.	Maximum Peak Current 8/20 μ s (A)		TNR V Series Part No.	Maximum Peak Current 8/20 μ s (A)	
	1 time	2 times		1 time	2 times
TNR10G150K TNR10G180K TNR10G220K TNR10G270K TNR10G330K TNR10G390K TNR10G470K TNR10G560K TNR10G680K TNR10G820K	500	250	TNR9V150K TNR9V180K TNR9V220K TNR9V270K TNR9V330K TNR9V390K TNR9V470K TNR9V560K TNR9V680K TNR9V820K	800	400
TNR10G101K TNR10G121K TNR10G151K TNR10G181K TNR10G201K TNR10G221K TNR10G241K TNR10G271K TNR10G331K TNR10G361K TNR10G391K TNR10G431K TNR10G471K TNR10G511K	2500	1300	TNR9V101K TNR9V121K TNR9V151K TNR9V181K TNR9V201K TNR9V221K TNR9V241K TNR9V271K TNR9V331K TNR9V361K TNR9V391K TNR9V431K TNR9V471K TNR9V511K	3000	2000
TNR12G150K TNR12G180K TNR12G220K TNR12G270K TNR12G330K TNR12G390K TNR12G470K TNR12G560K TNR12G680K	500	250	TNR10V150K TNR10V180K TNR10V220K TNR10V270K TNR10V330K TNR10V390K TNR10V470K TNR10V560K TNR10V680K	1000	500
TNR12G820K TNR12G101K TNR12G121K TNR12G151K TNR12G181K TNR12G201K TNR12G221K TNR12G241K TNR12G271K TNR12G331K TNR12G361K TNR12G391K TNR12G431K TNR12G471K TNR12G511K TNR12G561K TNR12G621K TNR12G681K TNR12G751K TNR12G821K TNR12G911K TNR12G102K TNR12G112K TNR12G122K TNR12G152K TNR12G182K	2500	1300	TNR10V820K TNR10V101K TNR10V121K TNR10V151K TNR10V181K TNR10V201K TNR10V221K TNR10V241K TNR10V271K TNR10V331K TNR10V361K TNR10V391K TNR10V431K TNR10V471K TNR10V511K TNR10V561K TNR10V621K TNR10V681K TNR10V751K TNR10V821K TNR10V911K TNR10V102K TNR10V112K TNR10V122K TNR10V152K TNR10V182K	3500	2500

Retentive Products			Replacement Recommendation		
TNR G Series Part No.	Maximum Peak Current 8/20μs (A)		TNR V Series Part No.	Maximum Peak Current 8/20μs (A)	
	1 time	2 times		1 time	2 times
TNR15G150K TNR15G180K TNR15G220K TNR15G270K TNR15G330K TNR15G390K TNR15G470K TNR15G560K TNR15G680K	1000	500	TNR14V150K TNR14V180K TNR14V220K TNR14V270K TNR14V330K TNR14V390K TNR14V470K TNR14V560K TNR14V680K	2000	1000
TNR15G820K TNR15G101K TNR15G121K TNR15G151K TNR15G181K TNR15G201K TNR15G221K TNR15G241K TNR15G271K TNR15G331K TNR15G361K TNR15G391K TNR15G431K TNR15G471K TNR15G511K	4500	2500	TNR14V820K TNR14V101K TNR14V121K TNR14V151K TNR14V181K TNR14V201K TNR14V221K TNR14V241K TNR14V271K TNR14V331K TNR14V361K TNR14V391K TNR14V431K TNR14V471K TNR14V511K	6000	5000
TNR15G561K TNR15G621K TNR15G681K TNR15G751K TNR15G821K TNR15G911K TNR15G102K TNR15G112K TNR15G122K TNR15G152K TNR15G182K	4500	2500	TNR14V561K TNR14V621K TNR14V681K TNR14V751K TNR14V821K TNR14V911K TNR14V102K TNR14V112K TNR14V122K TNR14V152K TNR14V182K	5000	4500

Retentive Products			Replacement Recommendation		
TNR G Series Part No.	Maximum Peak Current 8/20μs (A)		TNR V Series Part No.	Maximum Peak Current 8/20μs (A)	
	1 time	2 times		1 time	2 times
TNR23G180K TNR23G220K TNR23G270K TNR23G330K TNR23G390K TNR23G470K TNR23G560K TNR23G680K	2000	1000	TNR20V180K TNR20V220K TNR20V270K TNR20V330K TNR20V390K TNR20V470K TNR20V560K TNR20V680K	3000	2000
TNR23G820K TNR23G101K TNR23G121K TNR23G151K TNR23G181K TNR23G201K TNR23G221K TNR23G241K TNR23G271K TNR23G331K TNR23G361K TNR23G391K TNR23G431K TNR23G471K TNR23G511K	6500	4000	TNR20V820K TNR20V101K TNR20V121K TNR20V151K TNR20V181K TNR20V201K TNR20V221K TNR20V241K TNR20V271K TNR20V331K TNR20V361K TNR20V391K TNR20V431K TNR20V471K TNR20V511K	10000	7000
TNR23G561K TNR23G621K TNR23G681K TNR23G751K TNR23G821K TNR23G911K TNR23G102K TNR23G112K TNR23G122K TNR23G152K TNR23G182K	6500	4000	TNR20V561K TNR20V621K TNR20V681K TNR20V751K TNR20V821K TNR20V911K TNR20V102K TNR20V112K TNR20V122K TNR20V152K TNR20V182K	7500	6500

As to replacements, ask factory for technical specifications before purchase and/or use.