

MYN Series Metal Oxide Varistors

Ordering Code

MY
 1 2 3 4 5

1 – Series type:

N – High Energy Radial Lead Metal Oxide Varistors

2 – Element size (Nominal diameter in mm):

09D(ϕ 7mm), 12D(ϕ 10mm), 15D(ϕ 14mm), 23D(ϕ 20mm)

3 – Varistor voltage: Operating voltage expressed by 2 significant figures:

1st and 2nd digit: the two significant figures of the operating voltage

3rd digit: the number of Zeros to be added to the operating voltage value.

Example: 47V: 470

470v: 471

680V: 681

4 – Tolerance:

J: \pm 5%

K: \pm 10%

5 – Package: (where available)

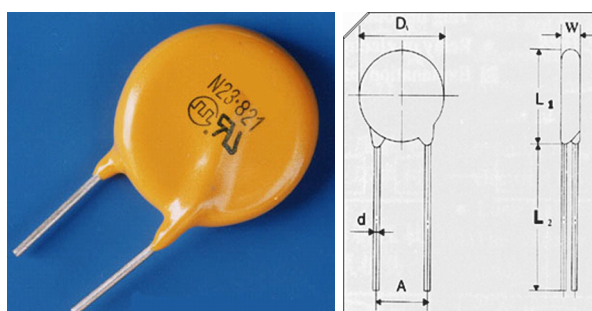
Blank = Bulk

Approval:    

Coating: Non-flammable Yellow Epoxy Resin (UL94V-0)

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Components Dimensions



Part No.	Disc Size (mm)	Dimensions of Components (mm)					
		D _{max}	W _{max}	A	L _{1 max}	L ₂	d
MYN9 – 180K ~ 680K	Φ7mm	9.0	5.2	5.0±1.0	12.0	6.5±1.5	0.6±0.1
MYN9 – 820K ~ 511K	Φ7mm	9.0	6.2	5.0±1.0	12.2	6.5±1.5	0.6±0.1
MYN12 – 180K ~ 680K	Φ10mm	12.2	5.3	7.5±1.0	15.0	6.5±1.5	0.8±0.1
MYN12 – 820K ~ 561K	Φ10mm	12.2	6.2	7.5±1.0	15.0	6.5±1.5	0.8±0.1
MYN12 – 621K ~ 182K	Φ10mm	13.5	14.0	7.5±1.0	17.0	6.5±1.5	0.8±0.1
MYN15 – 180K ~ 680K	Φ14mm	15.6	5.5	7.5±1.0	19.0	6.5±1.5	0.8±0.1
MYN15 – 820K ~ 561K	Φ14mm	15.5	6.4	7.5±1.0	19.0	6.5±1.5	0.8±0.1
MYN15 – 621K ~ 182K	Φ14mm	17.0	14.0	7.5±1.0	21.0	6.5±1.5	0.8±0.1
MYN23 – 180K ~ 680K	Φ20mm	23.0	6.0	10.0±1.0	25.0	6.5±1.5	1.0±0.1
MYN23 – 820K ~ 561K	Φ20mm	23.0	6.8	10.0±1.0	25.0	6.5±1.5	1.0±0.1
MYN23 – 621K ~ 182K	Φ20mm	24.0	15.0	10.0±1.0	28.0	6.5±1.5	1.0±0.1

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Electrical Characteristics

MYN Series Radial Lead Part No.	Characteristics @ 25°C				Maximum ratings @ 85°C							
	Varistor Voltage (V)	Max. Clamping Voltage		Typical Cap. (pf) (@1kHz)	Max. Allowable Voltage (V)		Maximum Energy (J)		Rated power (W)	Peak current (8×20μs) (A)		
		Vp (V)	Ip (A)		AC _{rms}	DC	10/1000 μ s	2ms		1×pulse	2×pulse	
MYN09-180K MYN12-180K MYN15-180K MYN23-180K	18 (16~24)	36 36 36 36	2.5 5 10 20	3800 16000 25000 40000	11	14	1.1 2.6 5.2 13	0.9 2.2 4.3 12	0.02 0.05 0.1 0.2	500 1000 2000 3000	250 500 1000 2000	
MYN09-220K MYN12-220K MYN15-220K MYN23-220K	22 (20~24)	43 43 43 43	2.5 5 10 20	3600 11000 20000 30000	14	18	1.3 3.2 6.3 16	1.1 2.6 5.3 14	0.02 0.05 0.1 0.2	500 1000 2000 3000	250 500 1000 2000	
MYN09-270K MYN12-270K MYN15-270K MYN23-270K	27 (24~30)	53 53 53 53	2.5 5 10 20	3400 8000 16000 24500	17	22	1.6 3.9 7.8 19	1.3 3.2 6.5 17	0.02 0.05 0.1 0.2	500 1000 2000 3000	250 500 1000 2000	
MYN09-330K MYN12-330K MYN15-330K MYN23-330K	33 (30~36)	65 65 65 65	2.5 5 10 20	2900 6300 12200 20000	20	26	2.0 4.8 9.5 24	1.6 4.0 7.9 21	0.02 0.05 0.1 0.2	500 1000 2000 3000	250 50 1000 2000	
MYN09-390K MYN12-390K MYN15-390K MYN23-390K	39 (35~43)	77 77 77 77	2.5 5 10 20	1600 5200 7000 13800	25	31	2.4 5.6 11 28	1.9 4.7 9.4 25	0.02 0.05 0.10 0.20	500 1000 2000 3000	250 500 1000 2000	
MYN09-470K MYN12-470K MYN15-470K MYN23-470K	47 (42~52)	93 93 93 93	2.5 5 10 20	1550 4600 6750 13500	30	38	2.8 6.8 14 34	2.3 5.6 11 30	0.02 0.05 0.1 0.2	500 1000 2000 3000	250 500 1000 2000	
MYN09-560K MYN12-560K MYN15-560K MYN23-560K	56 (50~62)	110 110 110 110	2.5 5 10 20	1500 3750 6500 12200	35	45	34 8.1 16 41	2.7 6.7 13 36	0.02 0.05 0.1 0.2	500 1000 2000 3000	250 500 1000 2000	
MYN07-680K MYN09-680K MYN12-680K MYN15-680K MYN23-680K	68 (61~75)	150 135 135 135 135	1 2.5 5 10 20	550 1200 2800 5500 11500	40	56	2.2 4.1 9.8 20 49	1.6 3.3 8.2 16 44	0.01 0.02 0.05 0.1 0.2	250 500 1000 2000 3000	125 250 500 1000 2000	

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MYN Series Radial Lead Part No.	Characteristics @ 25°C				Maximum ratings @ 85°C						
	Varistor Voltage (V)	Max. Clamping Voltage		Typical Cap. (pf) (@1kHz)	Max. Allowable Voltage (V)		Maximum Energy (J)		Rated power (W)	Peak current (8×20μs) (A)	
		Vp (V)	Ip (A)		AC _{rms}	DC	10/1000 μ s	2ms		1× pulse	2× pulse
MYN09-820K MYN12-820K MYN15-820K MYN23-820K	82 (74~90)	135	10	810	50	65	7	5	0.25 0.4 0.6 1.0	1750 3500 6000 10000	1250 2500 5000 7000
135		25	2000	14			10				
135		50	3700	28			20				
135		100	7500	56			40				
MYN09-101K MYN12-101K MYN15-101K MYN23-101K	100 (90~110)	165	10	70	60	75	8.5	6	0.25 0.4 0.6 1.0	1750 350 6000 10000	1250 2500 5000 7000
165		25	1700	17			12				
165		50	3200	35			25				
165		100	6500	70			50				
MYN09-121K MYN12-121K MYN15-121K MYN23-121K	120 (108~132)	200	10	590	75	100	10	7	0.25 0.4 0.6 1.0	1750 3500 6000 10000	1250 2500 5000 7000
200		25	1400	20			14.5				
200		50	2700	42			30				
200		100	5500	85			60				
MYN09-151K MYN12-151K MYN15-151K MYN23-151K	150 (135~165)	250	10	500	95	125	13	9	0.25 0.4 0.6 1.0	1750 3500 6000 10000	1250 2500 5000 7000
250		25	1100	25			18				
250		50	2200	53			37.5				
250		100	4500	103			75				
MYN09-201K MYN12-201K MYN15-201K MYN23-201K	200 (185~225)	340	10	200	130	170	17.5	12.5	0.25 0.4 0.6 1.0	1750 3500 6000 10000	1250 2500 5000 7000
340		25	430	35			25				
340		50	770	70			50				
340		100	1700	140			100				
MYN09-221K MYN12-221K MYN15-221K MYN23-221K	220 (198~242)	360	10	190	140	180	19	13.5	0.25 0.4 0.6 1.0	1750 3500 6000 10000	1250 2500 5000 7000
360		25	410	39			27.5				
360		50	740	78			55				
360		100	1600	155			110				
MYN09-241K MYN12-241K MYN15-241K MYN23-241K	240 (216~264)	395	10	170	150	200	21	15	0.25 0.4 0.6 1.0	1750 3500 6000 10000	1250 2500 5000 7000
395		25	380	42			30				
395		50	700	84			60				
395		100	1500	168			120				
MYN09-271K MYN12-271K MYN15-271K MYN23-271K	270 (247~303)	455	10	150	175	225	24	17	0.25 0.4 0.6 1.0	1750 3500 6000 10000	1250 2500 5000 7000
455		25	350	49			35				
455		50	640	99			70				
455		100	1300	190			135				

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MYN Series Radial Lead Part No.	Characteristics @ 25°C				Maximum ratings @ 85°C						
	Varistor Voltage (V)	Max. Clamping Voltage		Typical Cap. (pf) (@1kHz)	Max. Allowable Voltage (V)		Maximum Energy (J)		Rated power (W)	Peak current (8×20μs) (A)	
		Vp (V)	Ip (A)		AC _{rms}	DC	10/1000 μ s	2ms		1×pulse	2×pulse
MYN09-331K MYN12-331K MYN15-331K MYN23-331K	330 (297~363)	455 455 455 455	10 25 50 100	150 350 640 1300	175	225	24 49 99 190	17 35 70 135	0.25 0.4 0.6 1.0	1750 3500 6000 10000	1250 2500 4500 6500
MYN09-361K MYN12-361K MYN15-361K MYN23-361K	360 (324~396)	595 595 595 595	10 25 50 100	130 300 540 1100	230	300	32 65 130 255	23 45 90 180	0.25 0.4 0.6 1.0	1750 350 6000 10000	1250 2500 4500 6500
MYN09-391K MYN12-391K MYN15-391K MYN23-391K	390 (351~429)	650 650 650 650	10 25 50 100	130 300 500 1100	250	320	35 70 140 275	25 50 100 195	0.25 0.4 0.6 1.0	1750 3500 6000 10000	1250 2500 4500 6500
MYN09-431K MYN12-431K MYN15-431K MYN23-431K	430 (387~473)	710 710 710 710	10 25 50 100	120 270 450 1000	275	350	40 80 155 303	27.5 55 110 215	0.25 0.4 0.6 1.0	1750 3500 6000 10000	1250 2500 4500 6500
MYN09-471K MYN12-471K MYN15-471K MYN23-471K	470 (423~517)	775 775 775 775	10 25 50 100	100 230 400 900	300	385	42 85 175 350	30 60 125 250	0.25 0.4 0.6 1.0	1750 3500 6000 10000	1250 2500 4500 6500
MYN09-511K MYN12-511K MYN15-511K MYN23-511K	510 (459~561)	845 845 845 845	10 25 50 100	90 210 350 800	320	410	45 92 190 382	32 67 136 273	0.25 0.4 0.6 1.0	1750 3500 6000 10000	1250 2500 4500 6500
MYN09-561K MYN12-561K MYN15-561K MYN23-561K	560 (504~616)	910 910 910 910	10 25 50 100	80 200 340 700	350	460	46 92 190 382	33 67 136 273	0.25 0.4 0.6 1.0	1750 3500 6000 10000	1250 2500 4500 6500
MYN12-621K MYN15-621K MYN23-621K	620 (558~682)	1025 1025 1025	25 50 100	190 330 700	385	505	92 190 382	67 136 273	0.4 0.6 1.0	3500 5000 8000	2500 4500 6500

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MYN Series Radial Lead Part No.	Characteristics @ 25°C				Maximum ratings @ 85°C						
	Varistor Voltage (V)	Max. Clamping Voltage		Typical Cap. (pf) (@1kHz)	Max. Allowable Voltage (V)		Maximum Energy (J)		Rated power (W)	Peak current (8×20μs) (A)	
		Vp (V)	Ip (A)		AC _{rms}	DC	10/1000 μs	2ms		1×pulse	2×pulse
MYN12-681K MYN15-681K MYN23-681K	680 (612~748)	1120 1120 1120	25 50 100	170 320 650	420	560	92 190 382	67 136 273	0.4 0.6 1.0	3500 5000 8000	2500 4500 6500
MYN12-751K MYN15-751K MYN23-751K	750 (675~825)	1240 1240 1240	25 50 100	160 310 600	460	615	100 210 420	70 150 300	0.4 0.6 1.0	3500 5000 8000	2500 4500 6500
MYN12-781K MYN15-81K MYN23-781K	780 (702~858)	1290 1290 1290	25 50 100	150 300 560	485	640	105 220 440	75 160 312	0.4 0.6 1.0	3500 5000 8000	2500 4500 6500
MYN12-821K MYN15-851K MYN23-851K	820 (738~902)	1355 1355 1355	25 50 100	140 280 530	510	670	110 235 460	80 165 325	0.4 0.6 1.0	3500 5000 8000	2500 4500 6500
MYN12-911K MYN15-911K MYN23-911K	910 (819~1001)	1500 1500 1500	25 50 100	120 250 500	550	745	130 255 510	90 180 360	0.4 0.6 1.0	3500 5000 8000	2500 4500 6500
MYN12-102K MYN15-102K MYN23-102K	1000 (900~1100)	1650 1650 1650	25 50 100	110 230 450	625	825	140 280 565	100 200 400	0.4 0.6 1.0	3500 5000 8000	2500 4500 6500
MYN12-112K MYN15-112K MYN23-112K	1100 (990~1210)	1815 1815 1815	25 50 100	110 210 400	680	895	155 310 620	110 220 440	0.4 0.6 1.0	3500 5000 8000	2500 4500 6500
MYN12-182K MYN15-182K MYN23-182K	1800 (1700~1980)	2970 2970 2970	25 50 100	70 120 250	100 0	1465	247 510 1020	183 360 720	0.4 0.6 1.0	3500 5000 8000	2500 4500 6500

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- MYN09 Series – Ceramic Dimensions: 7mm
 - MYN12 Series – Ceramic Dimensions: 10mm
 - MYN15 Series – Ceramic Dimensions: 14mm
 - MYN23 Series – Ceramic Dimensions: 20mm