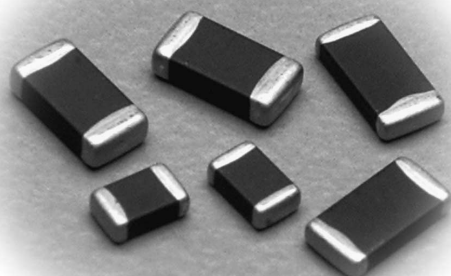
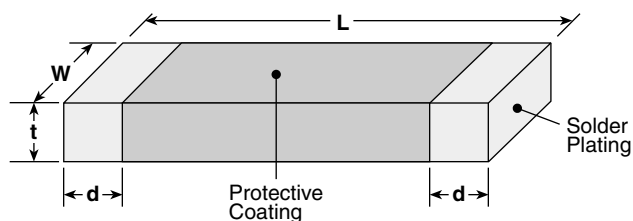


features

- Multilayer structure
- High surge current
- Protector against static electricity, switching and incoming surges
- Marking: Black body color with no marking



dimensions and construction



Type (Inch Size Code)	Dimensions inches (mm)			
	L	W	t	d
1J (0603)	.063±.006 (1.6±0.15)	.031±.006 (0.8±0.15)	.031±.006 (0.8±0.15)	.016 ^{+0.006} _{-.008} (0.4 ^{+0.15} _{-.02})
2A (0805)	.079±.008 (2.0±0.2)	.049±.008 (1.25±0.2)	.051 max. (1.3 max.)	.02±.010 (0.5±0.25)
2B (1206)	.126±.008 (3.2±0.2)	.063±.008 (1.6±0.2)	.065 max. (1.65 max.)	.02 ^{+0.014} _{-.010} (0.5 ^{+0.35} _{-.025})

ordering information

NV73	A	1J	T	TE	8R2
Type	Energy Code	Size	Termination Material	Packaging	Varistor Voltage
	A B C	1J: 0603 2A: 0805 2B: 1206	L: SnPb T: Sn	TE: 7" embossed plastic (2,500 pieces/reel)	8.2V 8R2 18V 18 "R" indicates decimal on value <10Ω

For further information on packaging, please refer to Appendix A.

applications and ratings

Part Designation	Reference Varistor Voltage @ 1mA nom. (Range) V _c	Clamping Voltage V _P	I _p	Maximum Peak Current I _p (A) @ 8/20 microsecond (2 pulses)	Maximum Energy E (J)	Capacitance Typ. C (1k to 1MHz) (pF)	Maximum Allowable Voltage a.c rms (V)	Maximum Allowable Voltage d.c (V)	Varistor Voltage (V)	Energy (J)	Peak Current (8/20μs) A (2 pulses)	Operating Temp. T _{opt} (°C)	Storage Temp. T _{stg} (°C)
NV73A1J*TE8R2	8.2 (6.8 - 9.8)	21	2A	30	0.1	370	4.2	6.0	8.2 - 27	0.1	30	-40°C to +85°C	-40°C to +125°C
NV73A1J*TE12	12 (10 - 14.4)	29				290	6.1	8.6					
NV73A1J*TE15	15 (12.5 - 18)	35				270	7.6	10.8					
NV73A1J*TE18	18 (16 - 20)	37				230	9.1	12.8					
NV73A1J*TE20	20 (18 - 22)	40				180	10.6	15.0					
NV73A1J*TE22	22 (19 - 24)	42				160	12.0	16.5					
NV73A1J*TE24	24 (21.8 - 26.5)	46				140	14.0	18.0					
NV73A1J*TE27	27 (25 - 32)	49				100	17.0	22.0					
NV73A2A*TE4R2	4.2 (3.8 - 5.0)	8	1A	10	0.01	400 - 80	2.1	3.0	4.2 - 47	0.01 - 0.16	10/20/25		
NV73A2A*TE8R2	8.2 (6.8 - 9.8)	16					4.2	6.0					
NV73A2A*TE12	12 (10 - 14.4)	22					6.1	8.6					
NV73A2A*TE15	15 (12.5 - 18)	27					7.6	10.8					
NV73A2A*TE18	18 (16 - 20)	29					9.1	12.8					
NV73A2A*TE20	20 (18 - 22)	33					10.6	15.0					
NV73A2A*TE22	22 (19 - 24)	39					12.0	16.5					
NV73A2A*TE24	24 (21.8 - 26.5)	42					14.0	18.0					

* Add termination material character (L, T)

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.

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applications and ratings (continued)

Part Designation	Reference Varistor Voltage @ 1mA nom. (Range) V _c	Clamping Voltage V _P	I _P	Maximum Peak Current I _p (A) @ 8/20 microsecond (2 pulses)	Maximum Energy E (J)	Capacitance Typ. C (1k to 1MHz) (pF)	Maximum Allowable Voltage a.c rms (V)	Maximum Allowable Voltage d.c (V)	Varistor Voltage (V)	Energy (J)	Peak Current (8/20μs) A (2 pulses)	Operating Temp. T _{opt} (°C)	Storage Temp. T _{stg} (°C)															
NV73A2A*TE27	27 (25 - 32)	50	1A	20	0.07	400 - 80	17.0	22.0	4.2 - 47	0.01 - 0.16	10/20/25	-40°C to +85°C	-40°C to +125°C															
NV73A2A*TE33	33 (30 - 39)	60			0.12		20.0	26.0																				
NV73A2A*TE39	39 (37 - 47)	72		25	0.14		25.0	31.0																				
NV73A2A*TE47	47 (45 - 54)	86			0.16		30.0	38.0																				
NV73B2A*TE4R2	4.2 (3.8 - 5.0)	9	2A	20	0.02	1000 - 200	2.1	3.0	4.2 - 33	0.02 - 0.25	20/35/50			-40°C to +85°C	-40°C to +125°C													
NV73B2A*TE8R2	8.2 (6.8 - 9.8)	18			0.03		4.2	6.0																				
NV73B2A*TE12	12 (10 - 14.4)	22		35	0.05		6.1	8.6																				
NV73B2A*TE15	15 (12.5 - 18)	30			0.07		7.6	10.8																				
NV73B2A*TE18	18 (16 - 20)	32			0.08		9.1	12.8																				
NV73B2A*TE20	20 (18 - 22)	36			0.09		10.6	15.0																				
NV73B2A*TE22	22 (19 - 24)	40			0.11		12.0	16.5																				
NV73B2A*TE24	24 (21.8 - 26.5)	42			0.12		14.0	18.0																				
NV73B2A*TE27	27 (25 - 32)	58			0.24		17.0	22.0																				
NV73B2A*TE33	33 (30 - 39)	66			50		0.25	20.0								26.0												
NV73C2A*TE4R2	4.2 (3.8 - 5.0)	8.8		2A	25		0.02	1000 - 300								2.1	3.0	4.2 - 24	0.02 - 0.18	25/50	-40°C to +85°C	-40°C to +125°C						
NV73C2A*TE8R2	8.2 (6.8 - 9.8)	16					0.04									4.2	6.0											
NV73C2A*TE12	12 (10 - 14.4)	22			50		0.09									6.1	8.6											
NV73C2A*TE15	15 (12.5 - 18)	28					0.11									7.6	10.8											
NV73C2A*TE18	18 (16 - 20)	32					0.13									9.1	12.8											
NV73C2A*TE20	20 (18 - 22)	35					0.14									10.6	15.0											
NV73C2A*TE22	22 (19 - 24)	40					0.17									12.0	16.5											
NV73C2A*TE24	24 (21.8 - 26.5)	42					0.18									14.0	18.0											
NV73A2B*TE27	27 (25 - 32)	55	2A			40	0.13		500 - 100	17.0	22.0					27 - 56	0.13 - 0.26						40	-40°C to +85°C	-40°C to +125°C			
NV73A2B*TE33	33 (30 - 39)	60					0.15			20.0	26.0																	
NV73A2B*TE39	39 (37 - 47)	72		0.18	25.0		31.0																					
NV73A2B*TE47	47 (45 - 54)	85		0.22	30.0		38.0																					
NV73A2B*TE56	56 (52 - 62)	100		0.26	35.0		45.0																					
NV73B2B*TE4R2	4.2 (3.8 - 5.0)	8.8	2A	30	0.02	1000 - 300	2.1	3.0	4.2 - 27	0.02 - 0.16	30/50					-40°C to +85°C	-40°C to +125°C											
NV73B2B*TE8R2	8.2 (6.8 - 9.8)	16			0.03		4.2	6.0																				
NV73B2B*TE12	12 (10 - 14.4)	22		50	0.07		6.1	8.6																				
NV73B2B*TE15	15 (12.5 - 18)	28			0.09		7.6	10.8																				
NV73B2B*TE18	18 (16 - 20)	32			0.1		9.1	12.8																				
NV73B2B*TE20	20 (18 - 22)	35			0.11		10.6	15.0																				
NV73B2B*TE22	22 (19 - 24)	40			0.12		12.0	16.5																				
NV73B2B*TE24	24 (21.8 - 26.5)	42			0.14		14.0	18.0																				
NV73B2B*TE27	27 (25 - 32)	52			0.16		17.0	22.0																				
NV73C2B*TE4R2	4.2 (3.8 - 5.0)	8.5			2A		40	0.02										2000 - 500	2.1	3.0			4.2 - 27			0.02 - 0.24	40/70	-40°C to +85°C
NV73C2B*TE8R2	8.2 (6.8 - 9.8)	15		0.06				4.2											6.0									
NV73C2B*TE12	12 (10 - 14.4)	21		70			0.1	6.1											8.6									
NV73C2B*TE15	15 (12.5 - 18)	27	0.13			7.6	10.8																					
NV73C2B*TE18	18 (16 - 20)	29	0.15			9.1	12.8																					
NV73C2B*TE20	20 (18 - 22)	31	0.17			10.6	15.0																					
NV73C2B*TE22	22 (19 - 24)	35	0.19			12.0	16.5																					
NV73C2B*TE24	24 (21.8 - 26.5)	38	0.2			14.0	18.0																					
NV73C2B*TE27	27 (25 - 32)	48	0.24			17.0	22.0																					

* Add termination material character (L, T)

E: Maximum allowable voltage - the maximum sinusoidal RMS voltage or maximum DC voltage which can be applied continuously

E: Maximum energy - the maximum energy within the varistor voltage change of ±10% when a single impulse of 2m sec. is applied

I_p: Maximum peak current - the maximum peak current within the varistor voltage change of ±10% when a single standard impulse of 8/20μ sec. is applied two times with an interval of 5 min.

T_{opt}: Operating temperature - Ambient temperature range when the device is operating

T_{stg}: Storage temperature - Temperature range without causing the device any failure

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11/01/03