

Part Number	Agency Mark	Device Marking	Maximum Applied Voltage		Varistor Voltage @1mA _{DC} V	Energy 2mS J	Maximum Clamping Voltage 8/20 μ S		Peak Current A	Typical Capacitance μ F	Dimensions(mm) ±1mm			
			A _{C_{RMS}}	DC			V	A			D-Max	T	W	d
High Energy Series - Radial Lead MOVs													Figure 64	
Z5L180H		H180	11	14	18 (14.4-21.6)	0.6	40	1	250	1600	7.5	4.4	5.0	0.6
Z5L220H		H220	14	18	22 (17.6-26.4)	0.7	48	1	250	1500	7.5	4.5	5.0	0.6
Z5L270H		H270	17	22	27 (24/30)	0.9	60	1	250	1450	7.5	4.6	5.0	0.6
Z5L330H		H330	20	26	33 (30-36)	1.1	73	1	250	1400	7.5	4.8	5.0	0.6
Z5L390H		H390	25	31	39 (35-43)	1.2	86	1	250	700	7.5	5.0	5.0	0.6
Z5L470H		H470	30	38	47 (42-52)	1.5	104	1	250	650	7.5	5.2	5.0	0.6
Z5L560H		H560	35	45	56 (50-62)	1.8	123	1	250	600	7.5	5.4	5.0	0.6
Z5L680H		H680	40	56	68 (61-75)	2.2	150	1	250	580	7.5	5.7	5.0	0.6
Z5L820H		H820	50	65	82 (74-90)	4.0	145	5	800	310	7.5	4.0	5.0	0.6
Z5L101H		H101	60	85	100 (90-110)	4.1	175	5	800	290	7.5	4.4	5.0	0.6
Z5L121H		H121	75	100	120 (108-132)	4.9	210	5	800	270	7.5	4.5	5.0	0.6
Z5L151H		H151	95	125	150 (135-165)	6.5	260	5	800	240	7.5	4.5	5.0	0.6
Z5L181H		H181	115	150	180 (162-198)	7.5	325	5	800	140	7.5	4.6	5.0	0.6
Z5L201H		H201	130	170	205 (185-225)	8.5	355	5	800	120	7.5	4.7	5.0	0.6
Z5L221H		H221	140	180	220 (198-242)	9.0	380	5	800	110	7.5	4.7	5.0	0.6
Z5L241H		H241	150	200	240 (216-264)	10.5	415	5	800	110	7.5	4.7	5.0	0.6
Z5L271H		H271	175	225	270 (247-303)	11.0	475	5	800	100	7.5	4.8	5.0	0.6
Z5L301H		H301	195	250	300 (270-330)	12.0	505	5	800	100	7.5	4.8	5.0	0.6
Z5L331H		H331	210	275	330 (297-363)	13.0	600	5	800	90	7.5	4.9	5.0	0.6
Z5L361H		H361	230	300	360 (324-396)	16.0	620	5	800	80	7.5	4.9	5.0	0.6
Z5L391H		H391	250	320	390 (351-429)	17.0	675	5	800	80	7.5	5.1	5.0	0.6
Z5L431H		H431	275	350	430 (387-473)	20.0	745	5	800	70	7.5	5.3	5.0	0.6
Z5L471H		H471	300	385	470 (423-517)	21.0	810	5	800	70	7.5	5.5	5.0	0.6
Z7L180H		7H180	11	14	18 (14.4-21.6)	1.3	36	2.5	500	3800	9.0	4.4	5.0	0.6
Z7L220H		7H220	14	18	22 (17.6-26.4)	2.1	43	2.5	500	3600	9.0	4.5	5.0	0.6
Z7L270H		7H270	17	22	27 (24-30)	2.5	53	2.5	500	3400	9.0	4.6	5.0	0.6
Z7L330H		7H330	20	26	33 (30-36)	3.0	65	2.5	500	2900	9.0	4.8	5.0	0.6
Z7L390H		7H390	25	31	39 (35-43)	4.0	77	2.5	500	1600	9.0	5.0	5.0	0.6
Z7L470H		7H470	30	38	47 (42-52)	5.0	93	2.5	500	1550	9.0	5.2	5.0	0.6
Z7L560H		7H560	35	45	56 (50-62)	5.4	110	2.5	500	1500	9.0	5.4	5.0	0.6
Z7L680H		7H680	40	56	68 (61-75)	6.1	135	2.5	500	1200	9.0	5.7	5.0	0.6
Z7L820H		7H820	50	65	82 (74-90)	7.0	135	10	1750	860	9.0	4.0	5.0	0.6
Z7L101H		7H101	60	85	100 (90-110)	7.5	165	10	1750	750	9.0	4.4	5.0	0.6
Z7L121H		7H121	75	100	120 (108-132)	9.0	200	10	1750	530	9.0	4.5	5.0	0.6
Z7L151H		7H151	95	125	150 (135-165)	11.0	250	10	1750	410	9.0	4.5	5.0	0.6
Z7L181H		7H181	115	150	180 (162-198)	13.0	300	10	1750	300	9.0	4.6	5.0	0.6
Z10L180H		10H180	11	14	18 (14.4-21.6)	3.0	36	5	1000	16000	14.0	4.8	7.5	0.8
Z10L220H		10H220	14	18	22 (17.6-26.4)	5.0	43	5	1000	11000	14.0	4.9	7.5	0.8
Z10L270H		10H270	17	22	27 (24-30)	6.0	53	5	1000	8000	14.0	5.0	7.5	0.8
Z10L330H		10H330	20	26	33 (30-36)	7.0	65	5	1000	6300	14.0	5.2	7.5	0.8
Z10L390H		10H390	25	31	39 (35-43)	9.0	77	5	1000	5200	14.0	5.4	7.5	0.8
Z10L470H		10H470	30	38	47 (42-52)	11.0	93	5	1000	4600	14.0	5.6	7.5	0.8
Z10L560H		10H560	35	45	56 (50-62)	13.0	110	5	1000	3750	14.0	5.8	7.5	0.8
Z10L680H		10H680	40	56	68 (61-75)	15.0	135	5	1000	2800	14.0	6.1	7.5	0.8
Z10L820H		10H820	50	65	82 (74-90)	17.0	135	25	3500	1920	14.0	4.4	7.5	0.8
Z10L101H		10H101	60	85	100 (90-110)	18.0	165	25	3500	1800	14.0	4.8	7.5	0.8
Z10L121H		10H121	75	100	120 (108-132)	21.0	200	25	3500	1500	14.0	4.9	7.5	0.8
Z10L151H		10H151	95	125	150 (135-165)	25.0	250	25	3500	1200	14.0	4.9	7.5	0.8
Z10L181H		10H181	115	150	180 (162-198)	30.0	300	25	3500	620	14.0	5.0	7.5	0.8
Z15L180H		15H180	11	14	18 (14.4-21.6)	7.0	36	10	2000	25000	17.5	4.8	7.5	0.8
Z15L220H		15H220	14	18	22 (17.6-26.4)	9.0	43	10	2000	20000	17.5	4.9	7.5	0.8
Z15L270H		15H270	17	22	27 (24-30)	11.0	53	10	2000	16000	17.5	5.0	7.5	0.8
Z15L330H		15H330	20	26	33 (30-36)	13.0	65	10	2000	12200	17.5	5.2	7.5	0.8
Z15L390H		15H390	25	31	39 (35-43)	15.0	77	10	2000	7000	17.5	5.4	7.5	0.8
Z15L470H		15H470	30	38	47 (42-52)	19.0	93	10	2000	6750	17.5	5.6	7.5	0.8
Z15L560H		15H560	35	45	56 (50-62)	22.0	110	10	2000	6500	17.5	5.8	7.5	0.8
Z15L680H		15H680	40	56	68 (61-75)	27.0	135	10	2000	5500	17.5	6.1	7.5	0.8
Z15L820H		15H820	50	65	82 (74-90)	31.0	135	50	6000	4300	17.5	4.4	7.5	0.8
Z15L101H		15H101	60	85	100 (90-110)	38.0	165	50	6000	3500	17.5	4.8	7.5	0.8
Z15L121H		15H121	75	100	120 (108-132)	47.0	200	50	6000	2500	17.5	4.9	7.5	0.8
Z15L151H		15H151	95	125	150 (135-165)	58.0	250	50	6000	2100	17.5	4.9	7.5	0.8
Z15L181H		15H181	115	150	180 (162-198)	71.0	300	50	6000	1250	17.5	5.0	7.5	0.8
Z21L180H		21H180	11	14	18 (14.4-21.6)	13.0	36	20	3000	40000	25.0	5.2	10.0	1.0
Z21L220H		21H220	14	18	22 (17.6-26.4)	16.0	43	20	3000	30000	25.0	5.3	10.0	1.0
Z21L270H		21H270	17	22	27 (24-30)	19.0	53	20	3000	24500	25.0	5.4	10.0	1.0
Z21L330H		21H330	20	26	33 (30-36)	24.0	65	20	3000	20000	25.0	5.6	10.0	1.0
Z21L390H		21H390	25	31	39 (35-43)	28.0	77	20	3000	13800	25.0	5.8	10.0	1.0
Z21L470H		21H470	30	38	47 (42-52)	34.0	93	20	3000	13500	25.0	6.0	10.0	1.0
Z21L560H		21H560	35	45	56 (50-62)	41.0	110	20	3000	12200	25.0	6.2	10.0	1.0
Z21L680H		21H680	40	56	68 (61-75)	49.0	135	20	3000	11500	25.0	6.5	10.0	1.0
Z21L820H		21H820	50	65	82 (74-90)	56.0	135	100	10000	8200	25.0	4.8	10.0	1.0
Z21L101H		21H101	60	85	100 (90-110)	70.0	165	100	10000	8000	25.0	5.2	10.0	1.0
Z21L121H		21H121	75	100	120 (108-132)	85.0	200	100	10000	5500	25.0	5.3	10.0	1.0
Z21L151H		21H151	95	125	150 (135-165)	106.0	250	100	10000	4200	25.0	5.3	10.0	1.0
Z21L181H		21H181	115	150	180 (162-198)	130.0	300	100	10000	2500	25.0	5.4	10.0	1.0

Radial leaded MOVs having the Underwriters Laboratory Recognized Component Mark, conform to UL 1414, UL1449 edition 3, as listed on DTI UL file number E319342. Maximum Power Dissipation: 5 mm-0.1 watt; 7 mm-0.25 watt; 10 mm-0.4 watt; 14 mm-0.6 watt, 20 mm-1 watt.

Typical response time is less than 15 nanoseconds. See page 57 for explanation of UL Surge Suppression Device Type Designations.

All devices listed are RoHS compliant.