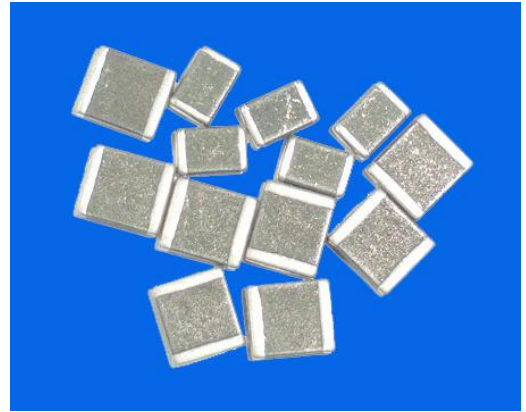


Features:

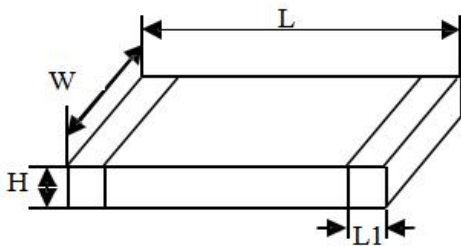
- ✧ Surface Mount Device, package size 0402~4840
- ✧ Multilayer ceramic structure
- ✧ Wide operating temperature: - 55℃ to + 125℃
- ✧ Fast response ($\leq 1\text{ns}$)
- ✧ High transient current capability
- ✧ Low leakage current



Naming Rule:

MLV	2220	-	350	K	T	B	*
Ecube-tech Multilayer Varistors	Package Size: 2220mils		DC Working Voltage: 5R6 : 5.6V 350 : 350V	Varistor Voltage Tolerance: K: $\pm 10\%$ L: $\pm 15\%$ M: $\pm 20\%$	Terminal Material: D: Ag/Pd T: Ag/Ni/Sn	Packing: T: Taping&Reel B: In bulk	For Special Parts

Structure:(Unit:mm)



Package	L (mm)	W (mm)	H(mm)	L1 (mm)
0402	1.00 $\pm$ 0.20	0.50 $\pm$ 0.20	0.50 $\pm$ 0.20	0.30 $\pm$ 0.20
0603	1.60 $\pm$ 0.20	0.80 $\pm$ 0.20	0.80 $\pm$ 0.20	0.30 $\pm$ 0.20
0805	2.00 $\pm$ 0.20	1.20 $\pm$ 0.20	0.80 $\pm$ 0.20	0.40 $\pm$ 0.2
1206	3.20 $\pm$ 0.20	1.60 $\pm$ 0.20	1.20 $\pm$ 0.20	0.40 $\pm$ 0.30
1210	3.20 $\pm$ 0.20	2.50 $\pm$ 0.20	1.20 $\pm$ 0.30	0.40 $\pm$ 0.30
1812	4.50 $\pm$ 0.20	3.20 $\pm$ 0.20	1.30 $\pm$ 0.30	0.50 $\pm$ 0.30
2220	5.60 $\pm$ 0.20	5.00 $\pm$ 0.20	1.50 $\pm$ 0.30	0.80 $\pm$ 0.30
3220	8.00 $\pm$ 0.20	5.00 $\pm$ 0.20	2.00 $\pm$ 0.50	0.80 $\pm$ 0.30
4032	10.0 $\pm$ 0.20	8.00 $\pm$ 0.20	2.00 $\pm$ 0.50	0.80 $\pm$ 0.30
4840	12.0 $\pm$ 0.20	10.0 $\pm$ 0.20	2.50 $\pm$ 0.50	0.80 $\pm$ 0.30

Electrical Specifications:

Part number	Working voltage		Breakdown(Varistor) voltage		Clamping voltage	Transient energy	Peak current	Capacitance
	DC	AC	@ 1mA DC		8/20 μ s 1A	10/1000 μ s	8/20 μ s	@ 1kHz
	VDC(V)	VRMS(V)	VB(V)		Vc(V)	ET(J)	Ip (A)	C(pF)
MLV0402-3R3MTT	3.3	2.5	5	$\pm 20\%$	10	0.02	10	80
MLV0402-5R6MTT	5.6	4	8	$\pm 20\%$	15.5	0.02	10	60
MLV0402-008MTT	8	5.7	12	$\pm 20\%$	25	0.05	10	50
MLV0402-011LTT	11	7.8	14	$\pm 15\%$	35	0.05	10	40
MLV0402-014LTT	14	10	18	$\pm 15\%$	45	0.05	10	40
MLV0402-018LTT	18	14	25	$\pm 15\%$	58	0.05	10	40
MLV0603-3R3MTT	3.3	2.5	5	$\pm 20\%$	10	0.1	20	350
MLV0603-5R6MTT	5.6	4	8	$\pm 20\%$	15.5	0.1	20	240
MLV0603-008MTT	8	5.7	12	$\pm 20\%$	25	0.1	30	200
MLV0603-014LTT	14	10	18	$\pm 15\%$	35	0.1	30	180
MLV0603-016LTT	16	12.7	22	$\pm 15\%$	37	0.1	30	130
MLV0603-018KTT	18	14	25	$\pm 10\%$	52	0.2	30	120
MLV0603-022KTT	22	15.6	27	$\pm 10\%$	58	0.2	30	100
MLV0603-026KTT	26	20	33	$\pm 10\%$	65	0.2	30	100
MLV0603-030KTT	30	22	39	$\pm 10\%$	72	0.2	30	100
MLV0603-038KTT	38	30	47	$\pm 10\%$	81	0.2	30	80
MLV0805-5R6MTT	5.6	4	8	$\pm 20\%$	15.5	0.1	30	600
MLV0805-008MTT	8	5.7	12	$\pm 20\%$	25	0.1	30	500
MLV0805-014LTT	14	10	18	$\pm 15\%$	35	0.1	40	360
MLV0805-018KTT	18	14	25	$\pm 10\%$	45	0.2	40	350
MLV0805-022KTT	22	15.6	27	$\pm 10\%$	58	0.2	40	260
MLV0805-026KTT	26	20	33	$\pm 10\%$	65	0.2	40	240
MLV0805-030KTT	30	22	39	$\pm 10\%$	72	0.2	40	200
MLV0805-038KTT	38	30	47	$\pm 10\%$	81	0.2	40	165

Note:

1. Typical leakage at 25°C < 50uA, maximum leakage 100uA.
2. At normal: $\Delta C_p \pm 30\%$, can also customized according to customer's specific requirements.

Electrical Specifications:

Part number	Working voltage		Breakdown(Varistor) voltage		Clamping voltage	Transient energy	Peak current	Capacitance
	DC	AC	@ 1mA DC		8/20 μ s 1A	10/1000 μ s	8/20 μ s	@ 1kHz
	VDC(V)	VRMS(V)	VB(V)		Vc(V)	ET(J)	Ip (A)	C(pF)
MLV1206-5R6MTT	5.6	4	8	$\pm 20\%$	15.5	0.2	100	1200
MLV1206-008KTT	8	5.7	12	$\pm 10\%$	25	0.2	100	900
MLV1206-014KTT	14	10	18	$\pm 10\%$	35	0.2	100	720
MLV1206-018KTT	18	14	25	$\pm 10\%$	45	0.2	100	550
MLV1206-026KTT	26	20	33	$\pm 10\%$	65	0.2	150	380
MLV1206-030KTT	30	22	39	$\pm 10\%$	72	0.2	150	360
MLV1206-038KTT	38	30	47	$\pm 10\%$	81	0.5	180	300
MLV1206-048KTT	48	34	62	$\pm 10\%$	110	0.5	180	220
MLV1210-5R6MTT	5.6	4	8	$\pm 20\%$	15.5	0.5	100	1800
MLV1210-008MTT	8	5.7	12	$\pm 20\%$	25	0.5	100	1300
MLV1210-014LTT	14	10	18	$\pm 15\%$	35	1	200	1150
MLV1210-018LTT	18	14	25	$\pm 15\%$	45	1	200	900
MLV1210-022LTT	22	15.6	27	$\pm 15\%$	58	1	200	750
MLV1210-026LTT	26	20	33	$\pm 15\%$	65	1	200	650
MLV1210-030LTT	30	25	39	$\pm 15\%$	72	1	200	600
MLV1210-038KTT	38	30	47	$\pm 10\%$	81	1	200	480
MLV1210-048KTT	48	34	62	$\pm 10\%$	110	2	250	380
MLV1210-056KTT	56	40	68	$\pm 10\%$	120	2	250	300
MLV1812-026KTT	26	20	33	$\pm 10\%$	45	1	400	1300
MLV1812-030KTT	30	24	39	$\pm 10\%$	55	1	400	1200
MLV1812-038KTT	38	30	47	$\pm 10\%$	77	1	400	900
MLV1812-056KTT	56	40	68	$\pm 10\%$	120	2	600	650
MLV1812-085KTT	85	60	100	$\pm 10\%$	160	2	600	600
MLV1812-100KTT	100	75	120	$\pm 10\%$	250	2.5	800	500

Note:

1. Typical leakage at 25°C < 50uA, maximum leakage 100uA.
2. At normal: $\Delta C_p \pm 30\%$, can also customized according to customer's specific requirements.

Electrical Specifications:

Part number	Working voltage		Breakdown(Varistor) voltage		Clamping voltage	Transient energy	Peak current	Capacitance
	DC	AC	@ 1mA DC		8/20 μ s 1A	10/1000 μ s	8/20 μ s	@ 1kHz
	VDC(V)	VRMS(V)	VB(V)		Vc(V)	ET(J)	Ip (A)	C(pF)
MLV2220-018KTT	18	14	25	$\pm 10\%$	38	2	600	4000
MLV2220-026KTT	26	20	33	$\pm 10\%$	45	2	600	3500
MLV2220-030KTT	30	24	39	$\pm 10\%$	55	2	600	3000
MLV2220-038KTT	38	30	47	$\pm 10\%$	77	2	600	2500
MLV2220-048KTT	48	34	62	$\pm 10\%$	85	2	600	2000
MLV2220-100KTT	100	75	120	$\pm 10\%$	200	2.5	600	1000
MLV3220-100KTB	100	75	120	$\pm 10\%$	200	3	500	450
MLV3220-200KTB	200	150	240	$\pm 10\%$	360	3	500	300
MLV3220-225KTB	225	175	270	$\pm 10\%$	380	3	500	250
MLV3220-320KTB	320	250	390	$\pm 10\%$	650	3	500	120
MLV3220-350KTB	350	275	430	$\pm 10\%$	710	4.5	500	100
MLV3220-380KTB	380	300	470	$\pm 10\%$	775	5	500	80
MLV4032-100KTB	100	75	120	$\pm 10\%$	200	5	500	500
MLV4032-320KTB	320	250	390	$\pm 10\%$	650	5	500	200
MLV4032-350KTB	350	275	430	$\pm 10\%$	710	5	500	160
MLV4032-380KTB	380	300	470	$\pm 10\%$	775	5	500	135
MLV4840-100KTB	100	75	120	$\pm 10\%$	200	5	500	350
MLV4840-320KTB	320	250	390	$\pm 10\%$	650	5	500	200
MLV4840-350KTB	350	275	430	$\pm 10\%$	710	5	500	180
MLV4840-380KTB	380	300	470	$\pm 10\%$	775	5	500	150

Note:

1. Typical leakage at 25°C < 50uA, maximum leakage 100uA.
2. At normal: $\Delta C_p \pm 30\%$, can also customized according to customer's specific requirements.

Packing Information:

Package	0402	0603	0805	1206	1210	1812	2220
Quantity per Reel (pcs)	10000	4000	4000	3000	3000	3000	1000

Package	3220	4032	4840
Quantity per bag (pcs)	1000	1000	1000

CONTACT INFORMATION**Shanghai Ecube-Tech Electronics Technology Co., Ltd.**

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