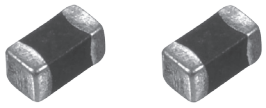
SMD Multilayer Chip Varistor

MLV Series



Features

- Low clamping voltage
- Meet IEC 61000-4-2 standard
- SMD type zinc oxide based ceramic chip
- Insulator over coat keeps excellent low and stable leakage current

Application

- Electrostatic absorption
- Pulse noise absorption

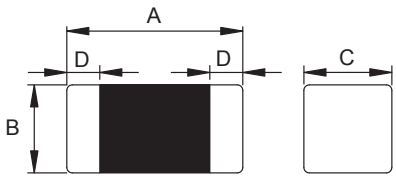
Part Numbering

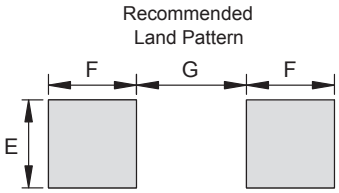
MLV 0603 □ - 330 V05 - □

1 2 3 4 5 6

1. Product Group
2. Dimension Code
3. Type Code
4. Capacitance Code
5. Rated Voltage Code
6. Control Code

Shapes and Dimension





Unit: mm

Type	A	B	C	D	E	F	G
MLV0603	0.60±0.05	0.30±0.05	0.30±0.05	0.20±0.10	0.25~0.35	0.20±0.30	0.25±0.35
MLV1005	1.00±0.20	0.50±0.10	0.60 (Max.)	0.25±0.15	0.50~0.60	0.60~1.20	0.40~0.60
MLV1608	1.60±0.15	0.80±0.10	0.80±0.10	0.30±0.20	0.70~0.80	1.00~1.10	0.40~0.60

General Technical Data

Operating Temperature Range	-40°C~+85°C
Storage Temperature	40°C Max. , 70%RHMax.

Electrical Characteristics

Part Number	Rated DC Voltage (V_{DC}) Max.	Varistor Voltage (V_V)	Clamping Voltage (V_C) Max.	Capacitance (C_P) Typ.
MLV0603C Series				
MLV0603C-330V05-☐	5.5V	8V~14V	28V	33pF
MLV0603C-470V05-☐	5.5V	8V~14V	26V	47pF
MLV0603C-640V05-☐	5.5V	8V~14V	26V	64pF

Part Number	Rated DC Voltage (V_{DC}) Max.	Varistor Voltage (V_V)	Clamping Voltage (V_C) Max.	Capacitance (C_P) Typ.
MLV1005C Series				
MLV1005C-271V05-☐	5.5V	8V~18V	24V	270pF
MLV1005CP-271V05-☐	5.5V	7.2V~10.8V	26V	270pF
MLV1005CM-271V05-☐	5.5V	6.4V~9.6V	26V	270Pf
MLV1005C-131V09-☐	9.0V	11.5V~21.5V	41V	130pF
MLV1005C-7R0V12-☐	12.0V	25V~40V	110V	7pF
MLV1005C-3R5V12-☐	12.0V	45V~65V	150V	3.5pF
MLV1005C-3R5V18-☐	18.0V	45V~65V	150V	3.5pF
MLV1005C-350V20-☐	20.0V	32V~42V	70V	35pF
MLV1005C-850V18-☐	18.0V	23V~33V	54V	85pF
MLV1005C-4R0V26-☐	26.0V	45V~65V	145V	4pF

Part Number	Rated DC Voltage (V_{DC}) Max.	Varistor Voltage (V_V)	Clamping Voltage (V_C) Max.	Capacitance (C_P) Typ.
MLV1608C Series				
MLV1608C-271V05-☐	5.5V	8V~18V	24V	270pF
MLV1608C-211V09-☐	9.0V	11.5V~21.5V	41V	210pF
MLV1608C-3R5V12-☐	12.0V	45V~65V	150V	3.5pF
MLV1608C-400V12-☐	12.0V	25V~40V	110V	40pF
MLV1608C-151V18-☐	18.0V	23V~33V	54V	150pF
MLV1608C-4R0V26-☐	26.0V	45V~65V	145V	4pF
MLV1608C-101V26-☐	26.0V	32V~42V	70V	100pF

Note:

- V_{DC} : Rated DC Voltage the varistor can maintain and not exceed 10μA leakage Current.
- V_V : Voltage measured across the component when DC 1mA applied.
- V_C : Voltage across the component when passing an 8/20μs waveform and 1A pulse current.
- C_P : Capacitance measured at 1MHz of oscillator frequency and 0 volt bias 1Vrms of oscillator voltage