

## Surface Mount Multilayer Varistors

### ESD Protection (ES) Series

#### Features:

- Fast Response < 0.5 ns
- Low Working Voltage 5 V
- Low Capacitance
- Low Leakage Current < 1  $\mu$ A
- Low Clamping Voltage

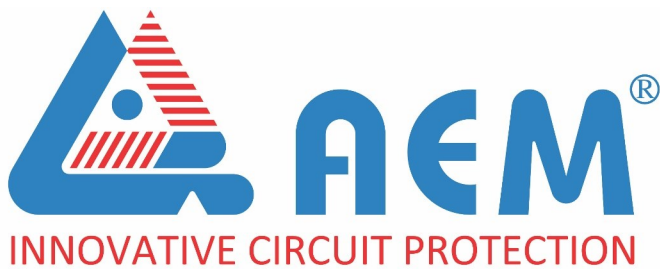
#### Application Fields:

- Cell Phones
- Digital Cameras
- PDAs
- MP3
- Notebooks

Part Number	Working Voltage (Max)	Breakdown Voltage	Clamping Voltage (Max)	Typical Capacitance Value (1 MHz)	ESD Contact	ESD Air
	DC(V)	(1mA)	(max.)	C (pF)	$V_{ESD}$	$V_{ESD}$
MLV0402ES012V0056N	12V	20V~30V	55V	56pF ( $\pm$ 30%)	8KV	15KV
MLV0402ES024V0003N	24V	48V~72V	110V	3.0pF (+80~-20%)	8KV	15KV
MLV0402ES005V0010N	5V	28V ~ 38V	72V	10pF ( $\pm$ 30%)	8KV	15KV
MLV0402ES005V0022N	5V	18V ~ 28V	52V	22pF ( $\pm$ 30%)	8KV	15KV
MLV0402ES005V0033N	5V	18V ~ 28V	52V	33pF ( $\pm$ 30%)	8KV	15KV
MLV0402ES005V0056N	5V	18V ~ 28V	52V	56pF ( $\pm$ 30%)	8KV	15KV
MLV0402ES012V0005P	12V	28V ~ 38V	72V	5.0pF (+80~-20%)	8KV	15KV
MLV0402ES012V0010N	12V	28V ~ 38V	72V	10pF ( $\pm$ 30%)	8KV	15KV
MLV0402ES024V02R5P	24V	100V ~ 150V	200V	2.5pF (+80~-20%)	8KV	15KV
MLV0402ES024V00R8P	24V	100V ~ 150V	200V	0.8pF (+80~-20%)	8KV	15KV
MLV0603ES005V0005P	5V	20V ~ 30V	55V	5.0pF (+80~-20%)	8KV	15KV
MLV0603ES005V0010N	5V	24V ~ 36V	65V	10pF ( $\pm$ 30%)	8KV	15KV
MLV0603ES005V0022N	5V	15V ~ 25V	34V	22pF ( $\pm$ 30%)	8KV	15KV
MLV0603ES005V0033N	5V	15V ~ 25V	34V	33pF ( $\pm$ 30%)	8KV	15KV
MLV0603ES005V0056N	5V	15V ~ 25V	36V	56pF ( $\pm$ 30%)	8KV	15KV
MLV0603ES012V0010N	12V	27V ~ 42V	60V	10pF ( $\pm$ 30%)	8KV	15KV
MLV0603ES012V0022N	12V	20V ~ 30V	55V	22pF ( $\pm$ 30%)	8KV	15KV
MLV0603ES012V0033N	12V	20V ~ 30V	55V	33pF ( $\pm$ 30%)	8KV	15KV
MLV0603ES012V0100N	12V	20V ~ 30V	55V	100pF ( $\pm$ 30%)	8KV	15KV
MLV0603ES024V02R5P	24V	100V ~ 150V	200V	2.5pF (+80~-20%)	8KV	15KV
MLV0603ES024V0003N	24V	48V ~ 72V	110V	3.0pF(+80~-20%)	8KV	15KV
MLV0603ES024V00R8P	24V	100V ~ 150V	200V	0.8pF (+80~-20%)	8KV	15KV

## Disclaimer

*Specifications are subject to change without notice. AEM products are designed for specific applications and should not be used for any purpose (including, without limitation, automotive, aerospace, medical, life-saving applications, or any other application which requires especially high reliability for the prevention of such defect as may directly cause damage to the third party's life, body or property) not expressly set forth in applicable AEM product documentation. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Warranties granted by AEM shall be deemed void for products used for any purpose not expressly set forth in applicable AEM product documentation. AEM shall not be liable for any claims or damages arising out of products used in applications not expressly intended by AEM as set forth in applicable AEM product documentation. The sale and use of AEM products is subject to AEM terms and conditions of sale. Please refer to AEM's website for updated catalog and terms and conditions of sale.*



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