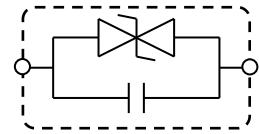


Multilayer Chip Varistor for LIN & CXPI

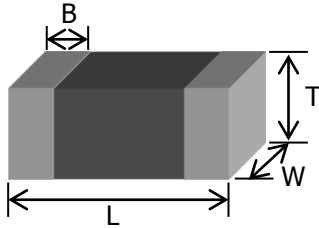
Features

- EIA00603 (1.6x0.8mm) chip size.
- Excellent ESD clamp characteristics that is very superior to the present products.
- Operating temperature range from -40°C to 125°C
- This product is compliant with the AEC-Q200 standard.

Equivalent Circuit

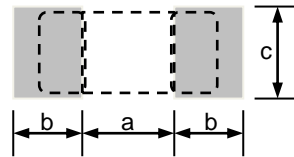


Shapes & Dimensions



	Unit / mm			
EIA	L	W	T	B
0603	1.6±0.1	0.8±0.1	0.8±0.1	0.2 Min.

Recommended PCB Pattern



	Unit / mm		
EIA	a	b	c
0603	0.6 to 0.8	0.6 to 0.8	0.6 to 0.8

Product Identification

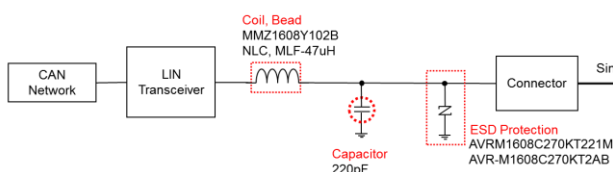
AVRM	1608	C	270	K	I	221	M
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
(1)	Series name / AVRM						
(2)	Dimension / 1608:1.6x0.8(mm)						
(3)	Structure						
(4)	Varistor voltage / 270:27x10 ⁰ (V)						
(5)	Varistor voltage tolerance / M:±20(%), K:±10(%)						
(6)	Packaging scheme / T:Taping						
(7)	Capacitance / 221:22x10 ¹ (pF)						
(8)	Capacitance tolerance / M:±20(%)						

Electrical Characteristics

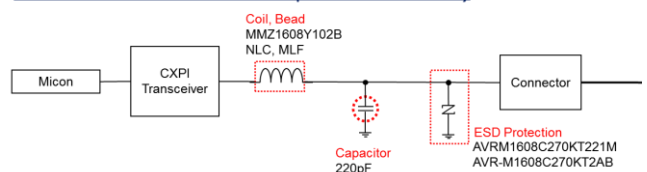
TDK Product Name	Varistor voltage (Breakdown voltage)	Rated voltage	Clamping voltage	Energy	Peak current	Capacitance
	DC1mA	DC	8/20µs	10/1000µs	8/20µs	1kHz, 1Vrms
	V1mA	Max.	Typ.	Max.	Max.	Typ.
	(V)	Vdc	Vcl	E	Ip	C
	(V)	(V)	(V)	(Joule)	(A)	(pF)
AVRM1608C270KT221M	27(24~30)	19	52	2	0.1	56
						220(176~264)

Example

LIN (Local Interconnect Network)



CXPI (Clock Extension Peripheral Interface)



Multilayer Chip Varistor

Frequency Characteristics

Transmission Characteristics

