

Surge Arrester / Chip Series

The Surge Arrester Chip Series are used in communication network for current surge protection during signal receiving. No signal interference will occur due to max. Insulation resistance and low capacitance (0.5 pf).

Main Test Criterion: IEC / ITUT K.20 & K.21











Surge Arrester / SMD Series

The SMD Series are commonly used in ADSL / xDSL / CATV / Satellite equipment and telecommunications.



Specification range of **2S Series**







Round Type



Recommended Pad Size







Surge Arrester / Two-terminal Series

The Two-terminal Series are commonly used in ADSL / xDSL / CATV / Satellite equipment and telecommunications.

Another Application in Power Supply L-G Hi-pot Test.



Specification range of 2R & 2N Series

DC Breakdown Voltage: 70V ~ 6000V



Dimensions	Unit: mm
Item	Dimensions
D	8.0 + 0.3 / -0.5
т	8.0 & 10.0 + 0.6 / -0.1
d	0.8 ± 0.05
L	20min.





Surge Arrester / Three-terminal lead & SMD Series

The Three-terminal lead & SMD Series are commonly used in ADSL / xDSL / CATV / Satellite equipment and Telecommunications.

Another application in Co-side &Cp side of Telecommunication System.



5.0±0.1

0.4 + 1.5 + + 0.4 +







Surge Arrester / Power Protection Series

Parts in the Power Protection Series are commonly used for the protection of SPD in the high power system and power distribution system.



Specification range of **AE D12 Series**







Marking







Surge Arrester / Power Protection Series

Parts in the Power Protection Series are commonly used for the protection of SPD in the high power system and power distribution system.



Specification range of **AE D17 Series**

DC Breakdown Voltage: 230V ~ 2200V







ZnO Varistor Series



The Varistor, commonly known as MOV, is an electronic element having non-Omni property. Its resistance varies with external voltage, so that its I-V curve possesses a non-linear relationship. Varistors are widely used in the electronic circuits for the protection of components resulted from the damages caused by transient voltage surge in the power supply system. When runs into transient voltage surge, the resistance of the Varistor will be abruptly reduced, so that the current will be shunt away to avoid damaging the downstream delicate devices.

The Protection Principle of Surge Arresters: During the standby stage, the resistance of the Varistors is extremely high (reaching several mega-ohms), relative to the device to be protected downstream in the circuit.

When runs into transient surge (over Varistor VB), the resistance of the Varistor will be abruptly reduced (several ohms), so that the circuit will be shorted to the ground to avoid damaging the downstream more delicate devices.

Scope of Applications

Protection of power source / interface devices / power strip / power windows on the automobile and Power Adapter

Specification range of **05D Series** Varistor Voltage (1mA): 18V~560V

Specification range of **07D Series** Varistor Voltage (1mA): 18V ~ 820V

Specification range of **10D Series** Varistor Voltage (1mA): 18V ~ 1100V

Specification range of **14D Series** Varistor Voltage (1mA): 18V ~ 1800V

Specification range of **20D Series** Varistor Voltage (1mA): 18V ~ 1800V



ZnO Varistor Series

L TYPE: Table 1 Unit: mm SERIES Dmax. Hmax. E (±0.8) d (±0.1) Lmin. 05D 7.0 9 5.0 0.6 07D 9.0 11 5.0 0.6 10D 12.5 15.5 7.5 0.8 20 14D 16.5 20.0* 7.5 0.8 20D 23.0 26.0** 7.5 0.8

* Above 14D561K ,Hmax. = 22.0 mm, ** Above 20D561K ,Hmax. = 28.0 mm

L TYPE: Table 2

L TYPE: Table 2 Unit:									
SERIES	Dmax.	Hmax.	E (±0.8)	d (±0.1)	Lmin.				
05D	7.0	13	5.0	0.6					
07D	9.0	13.5	5.0	0.6	20				
10D	12.5	17.5	7.5	0.8					
14D	16.5	21.0*	7.5	0.8					
20D	23.0	28.0**	7.5	0.8					

* Above 14D561K ,Hmax. = 23.0 mm, ** Above 20D561K ,Hmax. = 30.0 mm

Taping I





10D, 14D, 20D Series



Part No.	PARAMETER	MODEL SIZE					
		05D	07D	10D	14D	20D (E7.5)	20D (E10)
Р	Pitch of Component	12.7±1.0	12.7±1.0	25.4±1.0	25.4±1.0	25.4±1.0	25.4±1.0
P0	Feed Hole Pitch	12.7±0.2	12.7±0.2	12.7±0.2	12.7±0.2	12.7±0.2	12.7±0.2
P1	Feed Hold Center to Pitch	3.85±0.7	3.85±0.7	8.95±0.7	8.95±0.7	8.95±0.7	7.77±0.7
P2	Hold Center to Component Center	6.35±0.7	6.35±0.7	12.7±0.7	12.7±0.7	12.7±0.7	12.7±0.7
F	Lead to Lead Distance	5.0±0.8	5.0±0.8	7.5±0.8	7.5±0.8	7.5±0.8	10.0±0.8
$\Delta \mathbf{h}$	Component Alignment	2.0max.	2.0max.	2.0max.	4.0max.	4.0max.	4.0max.
w	Tape Width	18.0±0.5	18.0±0.5	18.0±0.5	18.0±0.5	18.0±0.5	18.0±0.5
W0	Hole Down Tape Width	12.0±0.8	12.0±0.8	12.0±0.8	12.0±0.8	12.0±0.8	12.0±0.8
W1	Hole Position	9.0±0.5	9.0±0.5	9.0±0.5	9.0±0.5	9.0±0.5	9.0±0.5
W2	Hole Down Tape Position	3.0max.	3.0max	3.0max	3.0max	3.0max	3.0max
Н	Height from Tape Center to Component Base	19.0±1.0	19.0±1.0	19.0±1.0	19.0±1.0	19.0±1.0	19.0±1.0
H1	Component Height	30.0max.	32.0max.	36.0max.	40.0max.	47.0max.	47.0max.
D0	Feed Hole Diameter	4.0±0.2	4.0±0.2	4.0±0.2	4.0±0.2	4.0±0.2	4.0±0.2
t	Total Tape Thickness	0.6±0.3	0.6±0.3	0.6±0.3	0.6±0.3	0.6±0.3	0.6±0.3
L	Length of Clipped Height	1.0max.	1.0max	1.0max	1.0max	1.0max	1.0max

Т d

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