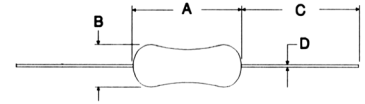


# ASR/ASRM Series — Anti-Surge Resistors

## Features

- Extended value range from 100Ω to 33M
- Excellent anti-surge characteristics
- Stable characteristics through the resistance range
- Good alternative to carbon composition resistors
- RoHS compliant / lead-free
- Applications include power supplies, CRT's and anti-surge circuits
- Cut and formed product is available on select sizes, contact factory for details



## Electrical Specifications

Type / Code	Power Rating (Watts) @ 70°C	Maximum Working Voltage*	Maximum Overload Voltage	Surge Withstanding	Ohmic Range and Tolerance	
					5%	10%
ASR 1/4	0.25W	500V	1,000V	1KV	100Ω – 510KΩ	–
				3KV	560KΩ – 33MΩ	22MΩ – 33MΩ
ASRM 1/4	0.25W	500V	1,000V	2KV	100KΩ – 20MΩ	–
ASRM 1/2	0.50W	700V	1,000V	5KV	100Ω – 510KΩ	–
				10KV	560KΩ – 910KΩ	22MΩ – 33MΩ
ASR 1	1.00W	1,000V	1,500V	5KV	100Ω – 510KΩ	–
				10KV	560KΩ – 910KΩ	22MΩ – 33MΩ
					13MΩ – 20MΩ	

\* Lesser of  $\sqrt{PR}$  or maximum working voltage

## Mechanical Specifications

Type / Code	A Body Length	B Body Diameter	C Lead Length (Bulk)	D Lead Diameter	Units
ASR 1/4	0.24 ± 0.01	0.09 ± 0.01	1.10 ± 0.08	0.024 ± 0.002	inches
	6.0 ± 0.3	2.3 ± 0.2	28.0 ± 2.0	0.6 ± 0.05	mm
ASRM 1/2	0.35 ± 0.03	0.12 ± 0.02	1.10 ± 0.08	0.027 ± 0.002	inches
	9.0 ± 1.0	3.0 ± 0.5	28.0 ± 2.0	0.7 ± 0.05	mm
ASR 1	0.59 ± 0.04	0.22 ± 0.02	1.38 ± 0.12	0.031 ± 0.002	inches
	15.0 ± 1.0	5.5 ± 0.5	35.0 ± 3.0	0.8 ± 0.05	mm

## Performance Characteristics (JIS C 5202)

Test	Test Results
Moisture Resistance	±5%
Temperature Cycling	±1%
Load Life	±5%
Resistance to Soldering Heat	±1%
Short Time Overload	±1%
Operating Temperature Range	-55°C to +155°C
Discharge	±50%

## How to Order

ASR		1/4		10K		5%		A	
SEI Type		Code		Nominal Resistance		Tolerance		Packaging	
Type	Description	Code	Tolerance	Code	Description	SEI Types		Pkg Qty	
ASR	EIA Standard	1/4	5%	A	Bulk	All		1,000	
ASRM	Mini	1/2	10%	T	Ammo	ASR 1/4, ASRM 1/4, ASR 1/2, ASRM 1/2		2,000	
		1		T	Ammo	ASR 1, ASRM 1		500	