

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



Electrical Specifications						
Type / Code	Power Rating (Watts) @ 70°C	Maximum Working Voltage (1)	Maximum Overload Voltage	Surge Withstanding	Ohmic Range (Ω) and Tolerance	
					5%	10%
ASRM 1/4	0.25W	500V	1,000V	2KV	100K - 10M	-
ASR 1/4	0.25W	500V	1,000V	1KV	100 - 510K	20M - 33M
				3KV	510K - 18M	-
ASRM 1/2	0.50W	700V	1,000V	5KV	100 - 510K	-
				10KV	560K - 910K 13M - 20M	22M - 33M
ASR 1	1.00W	1,000V	1,500V	5KV	100 - 510K	-
				10KV	560K - 910K 13M - 20M	22M - 33M

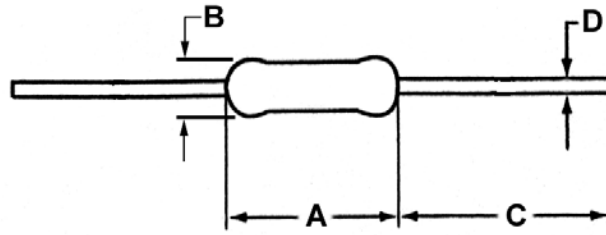
(1) Lesser of  $\sqrt{PR}$  or maximum working voltage.

Performance Characteristics	
Test	Test Results
Moisture Resistance	± 5%
Temperature Cycling	± 1%
Load Life	± 5%
Resistance to Soldering Heat	± 1%
Overload (short time)	± (2%+0.05Ω)
Discharge	± (10%+0.05Ω)

Operating Temperature Range: -55°C to +155°C

## How to Order

SEI Type		Code		Nominal Resistance	Tolerance	Packaging			
ASR		1/2		100K	5%	R			
Code	Description	Code	Wattage		Tolerance	SEI Types	Pkg Qty	Description	Code
ASR	Standard	1/4	0.25W		5%	ASRM 1/4	2,000	Bulk	A
ASRM	Mini	1/2	0.5W		10%	ASR 1/4, ASRM 1/2, ASR 1	1,000		
		1	1W			ASRM 1/4	5,000	Ammo	T
						ASR 1/4, ASRM 1/2	2,000		
						ASR 1	500		



Mechanical Specifications					
Type / Code	A Body Length	B Body Diameter	C Lead Length(Bulk)	D Lead Diameter	Units
ASRM 1/4	0.13 ± 0.01	0.07 ± 0.01	1.10 ± 0.08	0.018 ± 0.002	inches
	3.2 ± 0.2	1.85 ± 0.02	28.0 ± 2.0	0.45 ± 0.05	mm
ASR 1/4	0.24 ± 0.01	0.09 ± 0.01	1.10 ± 0.08	0.022 ± 0.002	inches
	6.0 ± 0.2	2.30 ± 0.02	28.0 ± 2.0	0.55 ± 0.05	mm
ASRM 1/2	0.35 ± 0.01	0.12 ± 0.02	1.10 ± 0.08	0.027 ± 0.002	inches
	9.0 ± 0.2	3.00 ± 0.50	28.0 ± 2.0	0.70 ± 0.05	mm
ASR 1	0.59 ± 0.01	0.20 ± 0.02	1.10 ± 0.08	0.031 ± 0.002	inches
	15.0 ± 0.2	5.00 ± 0.50	28.0 ± 2.0	0.80 ± 0.05	mm

## Color Code

Description

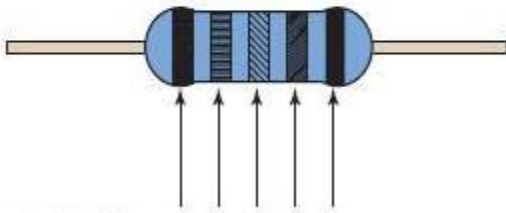
1, 1st band significant figure

2, 2nd band significant figure

3, Multiplier

4, Tolerance

5, Color code 5<sup>th</sup> Color Black(Anti-Surge Resistor)



Color code No. 1 2 3 4 5