

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

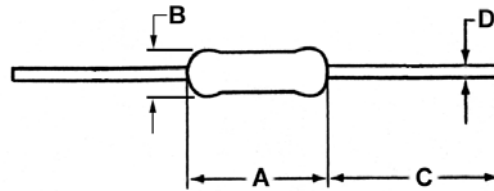


Electrical Specifications						
Type / Code	Power Rating (Watts) @ 70°C	Maximum Working Voltage (1)	Maximum Overload Voltage	Surge Withstanding	Ohmic Range (Ω) and Tolerance	
					Special Film 5%	Metal Glazed Film 1%, 2%, 5%
ASRM14	0.25W	500V	1,000V	2KV	-	100K - 22M
ASR14	0.25W	DC 1,600V AC 1,150V	DC 2,000V AC 1,500V	1KV 3KV	10 - 510K 560K - 12M	100K - 510K 560K - 33M
ASRM12	0.5W	2,000V	2,500V	5KV 10KV	10 - 510K 560K - 12M	100K - 510K 560K - 100M
ASRM1	1W	2,000V	3,000V	5KV 10KV	10 - 510K 560K - 12M	100K - 510K 560K - 100M
ASR1	1W	2,000V	3,000V	5KV 10KV	10 - 510K 560K - 12M	100K - 510K 560K - 100M

(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



Mechanical Specifications					
Type / Code	A Body Length	B Body Diameter	C Lead Length(Bulk)	D Lead Diameter	Unit
ASRM14	0.13 ± 0.008 3.2 ± 0.2	0.07 ± 0.008 1.85 ± 0.2	1.10 ± 0.12 28.0 ± 3.0	0.018 ± 0.002 0.45 ± 0.05	inches mm
ASR14	0.24 ± 0.01 6.0 ± 0.3	0.09 ± 0.008 2.30 ± 0.2	1.10 ± 0.12 28.0 ± 3.0	0.022 ± 0.002 0.55 ± 0.05	inches mm
ASRM12	0.35 ± 0.04 9.0 ± 1.0	0.12 ± 0.02 3.00 ± 0.50	1.10 ± 0.12 28.0 ± 3.0	0.027 ± 0.002 0.70 ± 0.05	inches mm
ASRM1	0.43 ± 0.04 11.0 ± 1.0	0.16 ± 0.02 4.0 ± 0.5	1.10 ± 0.12 28.0 ± 3.0	0.031 ± 0.002 0.80 ± 0.05	inches mm
ASR1	0.59 ± 0.04 15.0 ± 1.0	0.20 ± 0.02 5.00 ± 0.50	1.38 ± 0.12 35.0 ± 3.0	0.031 ± 0.002 0.80 ± 0.05	inches mm

Color Code

Description

1, 1st band significant figure

2, 2nd band significant figure

3, Multiplier

4, Tolerance

5, Color code 5th Color Black (Anti-Surge Resistor)



Color code No. 1 2 3 4 5

How to Order											
1	2	3	4	5	6	7	8	9	10	11	
A	S	R	1	4	J	A	1	0	0	K	
Product Series		Size	Power	Tolerance		Packaging			Resistance Value		
ASR	Standard	14	0.25W	Code	Tol	Code	Description	Size	Quantity	Four characters with the multiplier used as the decimal holder.	
ASRM	Mini	12	0.5W	F	1%	B	bulk	ASRM14	2,000		
		1	1W	G	2%	A	ammo	ASR14, ASR1; ASRM12, ASRM1	1,000	100 ohm = 100R 10.2 Kohm = 10K2 1 Mohm = 1M00	
				J	5%				ASRM14		5,000
									ASR14, ASR1; ASRM12		2,000
								ASRM1	1,000		
								ASR1	500		

Legacy Part Number (before January 3, 2011):

SEI Type		Code		Nominal Resistance	Tolerance	Packaging			
ASR		1/2		100K	5%	T			
Code	Description	Code	Wattage	Tolerance		SEI Types	Pkg Qty	Description	Code
ASR	Standard	1/4	0.25W	1%		ASRM14	2,000	bulk	A
ASRM	Mini	1/2	0.5W	2%		ASR14, ASRM12, ASR1, ASRM1	1,000		
		1	1W	5%		ASRM14	5,000	ammo	T
						ASR14, ASRM12	2,000		
						ASRM1	1,000		
						ASR1	500		