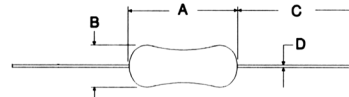


ASR Series — Anti-Surge Resistors

Features

- Extended value range from 100 Ohm to 33 Meg
- Excellent anti-surge characteristics
- Stable characteristics through the resistance range
- Applications include power supplies, CRT's and anti-surge circuits



Electrical Specifications

| Type (ASR) | Power Rating (Watts) @ 70°C | Maximum Working Voltage* | Maximum Overload Voltage | Surge Withstanding | Ohmic Range and Tolerance | |
|------------|-----------------------------|--------------------------|--------------------------|--------------------|---------------------------|--------------------------|
| | | | | | 5% | 10% |
| 1/4 | 0.25W | 350 | 700 | 1KV | 100Ω – 510K | 100Ω – 510K |
| | | | | 3KV | 560K – 33M | 560K – 33M |
| 1/2 | 0.5W | 350 | 700 | 5KV | 100Ω – 510K | 100Ω – 510K |
| | | | | 10KV | 560K – 910K 13M - 33M | 560K – 910K 13M - 33M |
| 1 | 1W | 500 | 1000 | 5KV | 100Ω – 510K | 100Ω – 510K |
| | | | | 10KV | 560K – 910K 13M - 33M | 560K – 910K 13M - 33M |

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

Mechanical Specifications

| Type (ASR) | inches | | mm | |
|------------|------------------|--------------------|-------------------------|--------------------|
| | A Body Length | B Body Diameter | C Lead Length (Bulk) | D Lead Diameter |
| 1/4 | 0.24 ± 0.01 | 0.09 ± 0.01 | 1.10 ± 0.08 | 0.024 |
| | 6.0 ± 0.3 | 2.3 ± 0.2 | 28.0 ± 2.0 | 0.6 |
| 1/2 | 0.35 ± 0.04 | 0.16 ± 0.02 | 1.10 ± 0.08 | 0.028 |
| | 9.0 ± 1.0 | 4.0 ± 0.5 | 28.0 ± 2.0 | 0.7 |
| 1 | 0.59 ± 0.04 | 0.22 ± 0.02 | 1.38 ± 0.12 | 0.031 |
| | 15.0 ± 1.0 | 5.5 ± 0.5 | 35.0 ± 3.0 | 0.8 |

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 | 1/2 | 10 K | 5% | A | | |
|----------|-----------|--------------------|-----------|-------------|-------------------------|---------|
| SEI Type | Code | Nominal Resistance | Tolerance | Packaging | | |
| Code | Tolerance | Values | Code | Description | SEI Types | Pkg Qty |
| 1/4 | 5% | E12 | A | Bulk | ASR 1/4, ASR 1/2, ASR 1 | 1,000 |
| 1/2 | 10% | E12 | T | Ammo | ASR 1/4 | 2000 |
| 1 | | | T | Ammo | ASR 1/2 | 1000 |
| | | | T | Ammo | ASR 1 | 2000 |