OPEN-AIR LOW VALUE CURRENT SHUNT RESISTORS
0.001Ω to 0.15Ω, 1 WATT to 5 WATT

OA SERIES

- Industry’s widest range and lowest cost!
- Tolerances to ±0.5%, TC’s to ±20ppm
- Available on exclusive SWIFT™ delivery program!
- Option S: Axial lead (unformed element)
- Option E: Low Thermal EMF
- Option A: Stand-offs formed into lead wires
- Optional pin diameters and pin spacing

RCD’s OA series offers cost-effective performance for a wide range of current shunt/sense applications. The non-insulated open-air design features non-inductive performance and excellent stability/overload capacity. Numerous design modifications and custom styles are available... current ratings up to 100A, surface mount designs, military screening/burn-in, marking, insulation, intermediate values, etc. Custom shunts have been an RCD specialty over 30 years! Contact factory for assistance.

SPECSIFICATIONS

<table>
<thead>
<tr>
<th>RCD Type</th>
<th>Power Rating</th>
<th>Current Rating</th>
<th>Resistance Range</th>
<th>A (lead spacing) ±0.04Ω</th>
<th>B Max.</th>
<th>C (lead diameter)</th>
<th>D Max.</th>
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TYPICAL OPERATING CHARACTERISTICS:
- TEMPERATURE RANGE: -55 to +275°C
- DERATING: derate power & current rating by 0.4%/°C above 25°C
- OVERLOAD: 5 x rated power for 5 seconds
- LOAD LIFE @ 25°C (1000 hrs): 1% ∆R
- MOISTURE No Load (1000 hrs): 1% ∆R
- INDUCTANCE: 10 to 25nH
- TEMP. CYCLING -40°C to +125°C (1000 cycles): 1% ∆R

TOLERANCE AND T.C. OPTIONS

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<tbody>
<tr>
<td>0.001 to 0.004Ω (OA5A=.0025 to .005Ω)</td>
<td>3% to 10%</td>
<td>900ppm to 200ppm</td>
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<tr>
<td>0.005 to 0.009Ω (OA5A=.006 to .015Ω)</td>
<td>1% to 10%</td>
<td>600ppm to 100ppm</td>
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<td>0.010 to 0.02Ω (OA5A=.016 to .025Ω)</td>
<td>1% to 10%</td>
<td>200ppm to 50ppm</td>
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<tr>
<td>0.025 to 0.04Ω (OA5A=.04 to .08Ω)</td>
<td>1% to 10%</td>
<td>100ppm to 30ppm</td>
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<tr>
<td>0.05 to 0.1Ω</td>
<td>1% to 10%</td>
<td>50ppm to 20ppm</td>
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*T C options vary depending on size and value (consult factory for availability)

RCD Components Inc, 520 E. Industrial Park Dr, Manchester, NH, USA 03109 rcdcomponents.com Tel: 603-669-0054 Fax: 603-669-5455 Email: sales@rcdcomponents.com
FA087E Sale of this product is in accordance with GF-061. Specifications subject to change without notice.

New narrow profile design offers significant space savings!

STANDARD RESISTANCE VALUES AND CODES

Intermediate values available, most popular values listed in bold:
- .001Ω (R001), .0015Ω (R0015), .002Ω (R002), .0025Ω (R0025), .003Ω (R003), .005Ω (R005), .006Ω (R006), .0075Ω (R0075), .008Ω (R008), .01Ω (R010 if ≤1%, R010 if ≥2%), .012Ω (R012), .015Ω (R015), .02Ω (R020 if ≤1%, R020 if ≥2%), .025Ω (R025), .03Ω (R030 if ≤1%, R030 if ≥2%), .033Ω (R033), .04Ω (R040 if ≤1%, R040 if ≥2%), .05Ω (R050 if ≤1%, R050 if ≥2%), .06Ω (R060), .07Ω (R070 if ≤1%, R070 if ≥2%), .075Ω (R075), .08Ω (R080 if ≤1%, R080 if ≥2%), .1Ω (R100 if ≤1%, R100 if ≥2%).

TOLERANCES TO ±0.5%, TC'S TO ±20ppm

OVERLOAD: 5 x rated power for 5 seconds

LOAD LIFE @ 25°C (1000 hrs): 1% ∆R

MOISTURE No Load (1000 hrs): 1% ∆R

INDUCTANCE: 10 to 25nH

TEMP. CYCLING -40°C to +125°C (1000 cycles): 1% ∆R

RCD Type

- Design Options: S=unformed, E=low thermal EMF, A=standoffs. Leave blank if std.
- Lead Spacing Option: 80=2" [55mm], 27=.275 [7mm]. Leave blank if std.
- Lead Diameter Option: 20=20AWG, 18=18AWG, 16=16AWG. Leave blank if standard.
- Resis.Code (see table): R01, R010, R100, etc.
- Tolerance Code: D=0.0%, F=1%, G=2%, H=3%, J=5%, K=10%

P/N DESIGNATION: OA2A

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