

Resistance Transfer Standard

FEATURES

- Using Bulk Metal® Foil as a resistive element
- Usable in air without oil bath due to superior temperature coefficient
- Very tight matching accuracy
- Excellent long-term stability and usable as a standard resistor

MASS AND SIZE

Weight: Approx. 3 kg (6.67 lbs)
Size: 180 D × 70 H × 332 W mm

OPTIONS

- ATS-LC Lead Compensator
- ATS-SB Shorting Bar

DESCRIPTION

The ATS series is a resistance transfer standard to calibrate working standard resistors by using a primary standard.

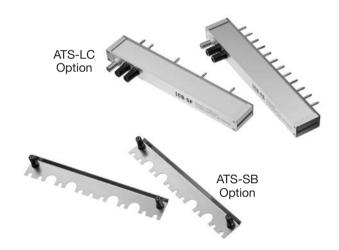
The ATS consists of the same 10 nominal value resistors connected in series known as Haymon bridge construction.

A maximum resistance ratio if 1:100 is obtainable in high precision, using either a lead compensator or a shorting bar. Configurations consist of from "10 resistors connected in parallel (1/10R)" to "10 resistors connected in series (10R)".

The ATS uses Bulk Metal® Foil technology as a resistive element, ensuring very tight matching accuracy.

The ATS can be used as a standard resistor due to the special features of Bulk Metal® Foil technology (low temperature coefficient and high stability).





| SPECIFICATIONS | | | | | | | | | | | |
|----------------|--------------------|--------|------------|----------|----------------------------|----------|-----------|----------------------------|------------------|------------------------|-------------|
| Series | Rsistance Range | Step | Accuracy | | Temperature Coefficient | | Stability | Power | Power | Working Temperature | Terminal |
| | | | Absolute | Matching | Absolute | Tracking | | Rating | Coefficiency | Range | Junctions |
| | Ω | Ω/step | ppm | ppm | ppm/ °C | ppm/ °C | ppm/yr | mW | ppm/mW | °C | |
| ATS-1E1 | 1-100 | 10 | ±20 ±10 | ±5 | ±5 | ±2.5 | ±10 | 10/ element 100/unit | ±0.1/ element | 23 ±10 | 4 terminals |
| ATS-1E2 | 10-1 k | 100 | | | ±1 | ±1 | | | | | |
| ATS-1E3 | 100-10 k | 1 k | | | | | | | | | |
| ATS-1E4 | 1 k-100 k | 10 k | | | | | | | | | |
| ATS-1E5 | 10 k-1 M | 100 k | | | | | | | | | |
| ATS-1E6 | 100 k-10 M | 1 M | | | | | | | | | 2 terminals |
| ATS-1E7 | 1 M-100 M | 10 M | ±50 | ±10 | ±10 | ±5 | | | | | |

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