

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 of 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).



ATS-LC
Option



ATS-SB
Option



SPECIFICATIONS

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