

## 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	Resistance 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	±2.5					
ATS-1E2	10~1k	100									
ATS-1E3	100~10k	1k					±10	10/element	±0.1/element	23 ±10	4 terminals
ATS-1E4	1k~100k	10k	±10	±5	±1	±1					
ATS-1E5	10k~1M	100k									
ATS-1E6	100k~10M	1M					±50				2 terminals
ATS-1E7	1M~100M	10M	±50	±10	±10	±5					



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