

ATS Series

[RESISTANCE TRANSFER STANDARD ATS Series]



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 (1/10 R)” to “10 resistors connected in series (10R)”.

The ATS uses 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 metal foil technology (low temperature coefficient and high stability).

FEATURES

- Using 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

SIZE, WEIGHT

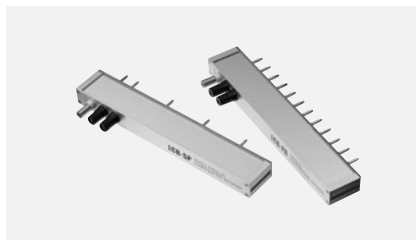
Size 180(D) × 70(H) × 332(W) mm

Weight 3kg (6.67 lbs)

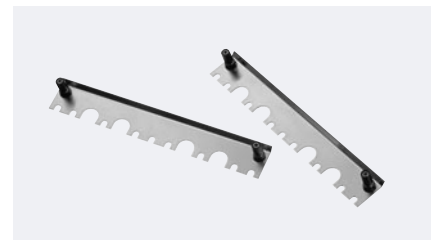
SPECIFICATIONS

Series	Resistance range	Step	Accuracy		Temperature coefficient		Stability	Power rating	Power coefficient	Working temperature range	Terminal junctions
			Absolute	Matching	Absolute	Tracking					
		/step	ppm	ppm	ppm/°C	ppm/°C	ppm/year	mW	ppm/mW		
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				
ATS-1E7	1M ~ 100M	10M	±50	±10	±10	±5					2 terminals

OPTIONS



Lead Compensator



Shorting Bar