



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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