

## 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					
ATS-1E1	1~100	10	±20	±5	±5	±2.5	±10	10/ element 100/unit	±0.1/ element	23 ±10	4 terminals
ATS-1E2	10~1k	100	±10		±1	±1					
ATS-1E3	100~10k	1k									
ATS-1E4	1k~100k	10k									
ATS-1E5	10k~1M	100k									
ATS-1E6	100k~10M	1M	±50	±10	±10	±5	±50				2 terminals
ATS-1E7	1M~100M	10M									



## Disclaimer

ALL PRODUCTS, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Vishay Precision Group, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "VPG"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

The product specifications do not expand or otherwise modify VPG's terms and conditions of purchase, including but not limited to, the warranty expressed therein.

VPG makes no warranty, representation or guarantee other than as set forth in the terms and conditions of purchase. **To the maximum extent permitted by applicable law, VPG disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.**

Information provided in datasheets and/or specifications may vary from actual results in different applications and performance may vary over time. Statements regarding the suitability of products for certain types of applications are based on VPG's knowledge of typical requirements that are often placed on VPG products. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. You should ensure you have the current version of the relevant information by contacting VPG prior to performing installation or use of the product, such as on our website at [vpgsensors.com](http://vpgsensors.com).

No license, express, implied, or otherwise, to any intellectual property rights is granted by this document, or by any conduct of VPG.

The products shown herein are not designed for use in life-saving or life-sustaining applications unless otherwise expressly indicated. Customers using or selling VPG products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify VPG for any damages arising or resulting from such use or sale. Please contact authorized VPG personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.

Copyright Vishay Precision Group, Inc., 2014. All rights reserved.