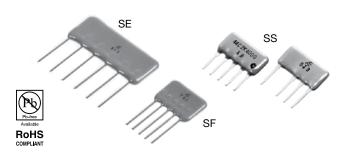


Precision Resistor Network (Conformally Coated)



COMPOSITION OF TYPE NUMBER

- ① Type ② Circuit Symbol ③ Resistance Value (R1)

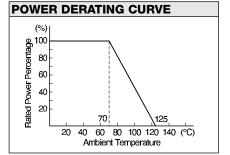
- (4) Resistance Value (Rn)
 (5) Resistance Tolerance (Absolute)
 (6) Resistance Tolerance (Matching)

Specify all values	for R1	to Rn
--------------------	--------	-------

Specify all values for	or R1 to Rn
------------------------	-------------

CONFIGURATION (DIMENSIONS IN mm)						
SE, SF, SS	Type	SE	SF	SS		
	L	29.0±0.5	14.0±0.5	7.5±0.5 to 15.5±0.5		
	w	12.5±0.5	10.0±0.5	7.3±0.5		
	T	2.7±0.5 2		2.2±0.5		
	l	5±1				
	t	0.3±0.05				
	а	1.0±0.5				
<u>, , , , , , , , , , , , , , , , , , , </u>	b	0.65±0.05				
F C	С		0.4±0.05	·		
Lead space will be determined depending on circuit and number of elements. F Multiple of 2.54						

TCR, RESISTANCE RANGE, TOLERANCE, RATED POWER										
Type	TCR (ppm/°C)*	Resistance Range	Maximum Resistance	Resistance Tolerance (%)**		Rated Power/ Package				
	-25°C to +125°C	Element (Ω)	Value Package (Ω)	Absolute	Matching	(W) at 70°C				
SE		30 to 120k	600k	±0.05 (A)	±0.05 (A)	±0.05 (A)	±0.05 (A)		±0.01 (T) ±0.02 (Q)	1
SF	0±5 30 to 120k 240k 30 to 20k 100k	±0.1 (B) ±0.5 (D)	±0.05 (A) ±0.1 (B)	0.5						
ss		30 to 20k	100k	±1 (F)	±0.5 (D) ±1 (F)	0.5				



^{**}Symbols parenthesized are for type number composition.

PERFORMANCE					
Parameters	Test Condition	ALPHA Specification		ALPHA Typical Test Data	
		ΔR	∆Ratio	ΔR	∆Ratio
Maximum Rated Operating Temperature Working Temperature Range		70°C –25°C to +125°C			
Temperature Cycling	−25°C/30 min., Room Temperature/5 min., +125°C/30 min., 5 cycles	±0.05%	±0.01%	±0.01%	±0.005%
Low Temperature Storage Overload Terminal Strength	-25°C, No Load, 2 hrs. Rated Voltage x 2.5, 5 sec. 0.51 kg (1.123 pounds),10 sec.	±0.05% ±0.05% ±0.05%	±0.01% ±0.01% ±0.01%	±0.005% ±0.0025% ±0.005%	±0.0025% ±0.001% ±0.0025%
Dielectric Withstanding Voltage Insulation Resistance Resistance to Soldering Heat Moisture Resistance	Atmo. Pres.: AC 300V, 1 min. DC 100V, 1 min. 350°C, 3 sec. +65°C to -10°C, 90% RH to 98% RH, Rated Voltage, 10 cycles (240 hrs.)	±0.03% over 10 ±0.03% ±0.1%	±0.01% 000 MΩ ±0.01% ±0.05%	±0.005% over 10 ±0.005% ±0.03%	±0.0025% ,000 MΩ ±0.0025% ±0.005%
Shock Vibration	50G, 11 ms., Half-Sine Wave, X, Y, Z, each 3 shocks 20G, 10 Hz to 55 Hz to 10 Hz, 1 min., X, Y, Z, each 2 hrs.	±0.03% ±0.03%	±0.01% ±0.01%	±0.005% ±0.005%	±0.0025% ±0.0025%
Life (Rated Load)	70°C, Rated Power, 1.5 hrs. – ON, 0.5 hr. – OFF, 1,000 hrs.	±0.1%	±0.05%	±0.01%	±0.005%
Life (Moisture Load) 40°C, 90% RH to 95% RH, Rated Power, 1.5 hrs. – ON, 0.5 hr. – OFF, 1,000 hrs.		±0.1%	±0.05%	±0.01%	±0.005%
High Temperature Exposure	125°C, No Load, 1,000 hrs.	±0.1%	±0.05%	±0.01%	±0.005%
Storage Life	15°C to 35°C, 15% RH to 75% RH, No Load, 10,000 hrs.	±0.05%	±0.03%	±0.005%	±0.0025%

^{*}TCR tracking is dependent on resistance ratio. See table 1 on page 32.



Legal Disclaimer Notice

Vishay Precision Group, Inc.

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.

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.

Document No.: 63999 Revision: 15-Jul-2014