

SWT/EWT Series

Non-Flammable Edgewound Tubular Wirewound Resistor

Stackpole Electronics, Inc.

Resistive Product Solutions

Features:

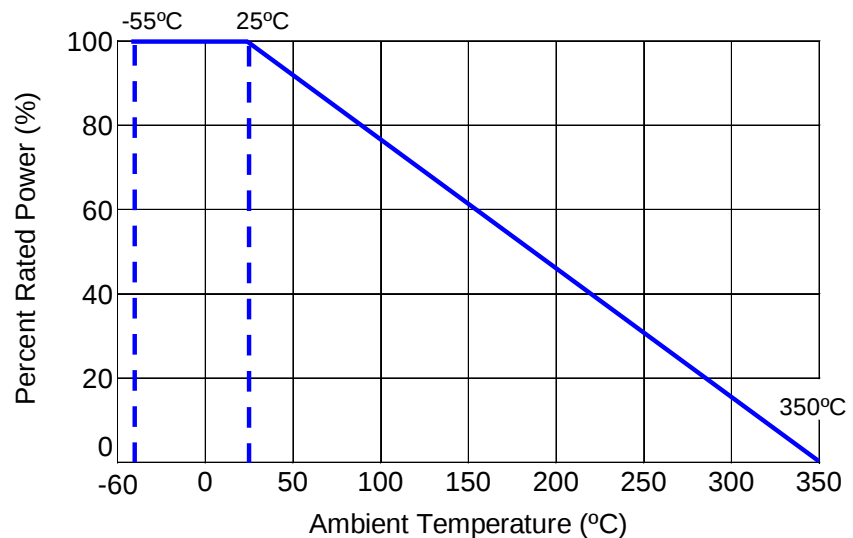
- High current capability
- RoHS compliant / lead-free
- Non-inductive style only available with silicone coating (NSWT)
- Suitable for soldering or thru bolt connections
- Wirewound ribbon on ceramic substrate
- SWT – Silicone coating provides temperature handling up to 350°C
- SWTA – Adjustable version
- EWT – Vitreous enamel coating provides temperature handling up to 500°C



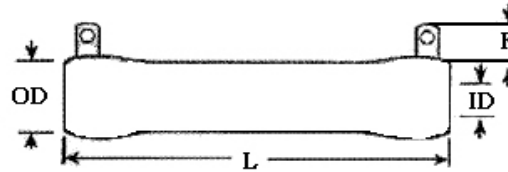
Electrical Specifications

Type / Code	Power Rating (Watts) @ 25°C	Dielectric Strength VAC	Ohmic Range (Ω) and Tolerance 5%, 10%		
			SWT	NSWT	EWT
SWT12 / EWT12	12W	1,000	0.1 - 51K	0.1 - 53	1 - 5K
SWT25 / EWT25	25W	2,500	0.1 - 30K	0.1 - 100	1 - 10K
SWT50 / EWT50	50W	2,500	0.1 - 50K	0.1 - 275	1 - 20K
SWT100 / EWT100	100W	2,500	0.1 - 100K	0.12 - 680	1 - 50K
SWT150 / EWT150	150W	2,500	0.1 - 150K	0.22 - 1.5K	1 - 80K
SWT175 / EWT175	175W	2,500	0.15 - 100K	0.24 - 1.3K	1 - 100K
SWT200 / EWT200	200W	2,500	0.1 - 200K	0.25 - 1.35K	1 - 120K
SWT225 / EWT225	225W	2,500	0.2 - 130K	0.3 - 1.7K	1 - 130K
SWT250 / EWT250	250W	2,500	0.5 - 125K	0.33 - 1.8K	1 - 200K
SWT300 / EWT300	300W	2,500	0.5 - 150K	0.42 - 2.25K	1 - 240K

Power Derating Curve:



Mechanical Specifications

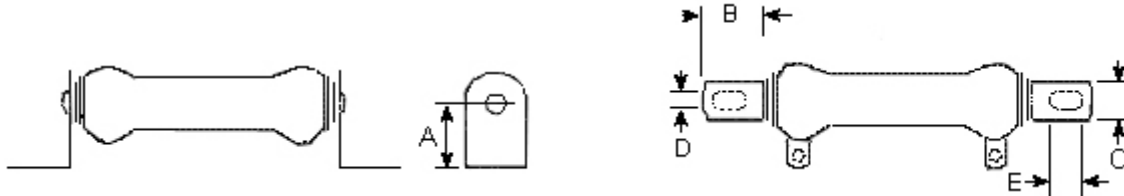


Type / Code(1)	OD	ID	F	L	Unit
SWT12 / EWT12	0.313 ± 0.039 7.94 ± 1.00	0.187 ± 0.039 4.76 ± 1.00	0.472 ± 0.039 12.00 ± 1.00	1.752 ± 0.079 44.50 ± 2.00	inches mm
SWT25 / EWT25	0.563 ± 0.039 14.30 ± 1.00	0.313 ± 0.039 7.94 ± 1.00	0.472 ± 0.039 12.00 ± 1.00	2.008 ± 0.079 51.00 ± 2.00	inches mm
SWT50 / EWT50	0.563 ± 0.039 14.30 ± 1.00	0.313 ± 0.039 7.94 ± 1.00	0.748 ± 0.039 19.00 ± 1.00	4.016 ± 0.079 102.00 ± 2.00	inches mm
SWT100 / EWT100	0.752 ± 0.039 19.10 ± 1.00	0.500 ± 0.039 12.70 ± 1.00	0.669 ± 0.039 17.00 ± 1.00	6.496 ± 0.079 165.00 ± 2.00	inches mm
SWT150 / EWT150	1.102 ± 0.039 28.00 ± 1.00	0.752 ± 0.039 19.10 ± 1.00	0.669 ± 0.039 17.00 ± 1.00	8.110 ± 0.079 206.00 ± 2.00	inches mm
SWT175 / EWT175	1.126 ± 0.039 28.60 ± 1.00	0.752 ± 0.039 19.10 ± 1.00	0.669 ± 0.039 17.00 ± 1.00	8.504 ± 0.079 216.00 ± 2.00	inches mm
SWT200 / EWT200	1.378 ± 0.039 35.00 ± 1.00	0.752 ± 0.039 19.10 ± 1.00	0.669 ± 0.039 17.00 ± 1.00	8.740 ± 0.079 222.00 ± 2.00	inches mm
SWT225 / EWT225	1.126 ± 0.039 28.60 ± 1.00	0.752 ± 0.039 19.10 ± 1.00	0.709 ± 0.039 18.00 ± 1.00	10.512 ± 0.079 267.00 ± 2.00	inches mm
SWT250 / EWT250	1.575 ± 0.039 40.00 ± 1.00	0.984 ± 0.039 25.00 ± 1.00	0.787 ± 0.039 20.00 ± 1.00	8.268 ± 0.079 210.00 ± 2.00	inches mm
SWT300 / EWT300	1.575 ± 0.039 40.00 ± 1.00	0.984 ± 0.039 25.00 ± 1.00	0.787 ± 0.039 20.00 ± 1.00	10.236 ± 0.079 260.00 ± 2.00	inches mm

(1) EWT and NSWT series will have the same Mechanical Specifications as SWT series

- Hardware:
- Sturdy plated steel brackets, thru-bolts, centering washers, and insulating washers
 - Brackets provide elongated mounting holes for ease of mounting

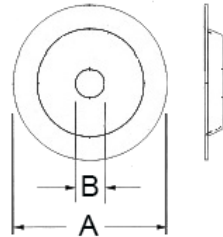
Mounting Brackets Mechanical Specifications



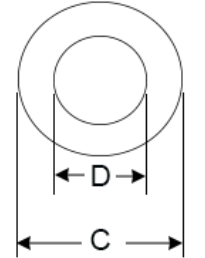
Resistor Power Rating	A	B	C	D	E	Unit
12W	1.000 25.40	0.750 19.05	0.500 12.70	0.219 5.56	0.438 11.13	inches mm
25W	1.000 25.40	0.750 19.05	0.500 12.70	0.219 5.56	0.438 11.13	inches mm
50W	1.000 25.40	0.750 19.05	0.500 12.70	0.219 5.56	0.438 11.13	inches mm
100W	1.000 25.40	0.750 19.05	0.500 12.70	0.219 5.56	0.438 11.13	inches mm
150W	1.500 38.10	0.875 22.23	1.250 31.75	0.281 7.14	0.563 14.30	inches mm
175W	1.500 38.10	0.875 22.23	1.250 31.75	0.281 7.14	0.563 14.30	inches mm
200W	1.500 38.10	0.875 22.23	1.250 31.75	0.281 7.14	0.563 14.30	inches mm
225W	1.500 38.10	0.875 22.23	1.250 31.75	0.281 7.14	0.563 14.30	inches mm
250W	1.500 38.10	0.875 22.23	1.250 31.75	0.281 7.14	0.563 14.30	inches mm
300W	1.500 38.10	0.875 22.23	1.250 31.75	0.281 7.14	0.563 14.30	inches mm

Bolt and Washers Mechanical Specifications

Metal Centering Washer

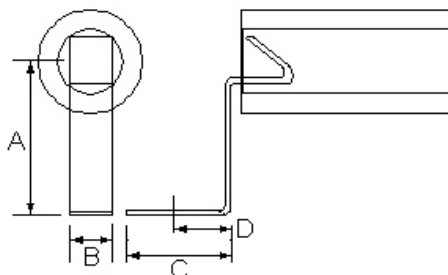


Mica Insulating Washer



Resistor Power Rating	OD	Core Length	Bolt Length	Bolt No.	A	B	C	D	Unit
12W	0.313 7.95	1.748 44.40	2.250 57.15	8	0.313 7.95	- -	- -	- -	inches mm
25W	0.563 14.30	2.008 51.00	2.500 63.50	10	0.560 14.22	0.190 4.83	0.750 19.05	0.313 7.95	inches mm
50W	0.563 14.30	4.016 102.00	4.750 120.65	10	0.560 14.22	0.190 4.83	0.750 19.05	0.313 7.95	inches mm
100W	0.752 19.10	6.496 165.00	7.000 177.80	10	0.750 19.05	0.190 4.83	1.000 25.40	0.500 12.70	inches mm
150W	1.102 28.00	8.110 206.00	7.750 196.85	0.25"	1.125 28.58	0.250 6.35	1.250 31.75	0.625 15.88	inches mm
175W	1.126 28.60	8.504 216.00	9.125 231.78	0.25"	1.125 28.58	0.250 6.35	1.500 38.10	0.750 19.05	inches mm
200W	1.378 35.00	8.740 222.00	9.250 234.95	0.25"	1.400 35.56	0.250 6.35	1.500 38.10	0.750 19.05	inches mm
225W	1.126 28.60	10.512 267.00	11.250 285.75	0.25"	1.125 28.58	0.250 6.35	1.500 38.10	0.750 19.05	inches mm
250W	1.575 40.00	8.740 222.00	9.250 234.95	0.5"	1.570 39.88	0.500 12.70	2.000 50.80	1.000 25.40	inches mm
300W	1.575 40.00	10.709 272.00	11.125 282.58	0.5"	1.570 39.88	0.500 12.70	2.000 50.80	1.000 25.40	inches mm

Spring Clip Mechanical Specifications



Resistor Power Rating	A	B	C	D	Unit
12W	0.281	0.250	0.344	0.188	inches
	7.14	6.35	8.74	4.78	mm
25W	0.625	0.250	0.469	0.313	inches
	15.88	6.35	11.91	7.95	mm
50W	0.625	0.250	0.469	0.313	inches
	15.88	6.35	11.91	7.95	mm

How to Order

1	2	3	4	5	6	7	8	9	10	11	12	
E	W	T	M	5	0	J	B	2	0	0	R	
Product Series		Code	Description	Code	Power	Tolerance		Packaging				Resistance Value
SWT	Silicone Coating (std)	-	Std Tab Connection	12	12W	Code	Tol	Code	Description	Size	Quantity	Four characters with the multiplier used as the decimal holder. 0.1 ohm = R100 1 ohm = 1R00 10 Kohm = 10K0
EWT	Vitreous Enamel	M	Mounting Hardware	25	25W	J	5%	B	Bulk	All Sizes	Each	
NSWT	Non-inductive Silicone Coating	S	Spring Clips	50	50W	K	10%					
		L	Welded Straight Leads	100	100W							
		A	Adjustable	150	150W							
				175	175W							
				200	200W							
				225	225W							
				250	250W							
				300	300W							