

# EWT100JB50R0 Datasheet

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DiGi Electronics Part Number	EWT100JB50R0-DG
Manufacturer	<a href="#">Stackpole Electronics Inc</a>
Manufacturer Product Number	EWT100JB50R0
Description	RES CHAS MNT 50 OHM 5% 100W
Detailed Description	50 Ohms $\pm$ 5% 100W Wirewound Chassis Mount Resistor

This model EWT100JB50R0 is available at DiGi Electronics.

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DiGi is a global authorized distributor of electronic components.

## Purchase and inquiry

Manufacturer Product Number:

EWT100JB50R0

Series:

EWT

Resistance:

50 Ohms

Power (Watts):

100W

Temperature Coefficient:

-

Features:

Flame Proof, Safety

Mounting Feature:

Brackets (not included)

Height - Seated (Max):

-

Package / Case:

Radial, Tubular

Manufacturer:

Stackpole Electronics Inc

Product Status:

Active

Tolerance:

±5%

Composition:

Wirewound

Operating Temperature:

-55°C ~ 350°C

Coating, Housing Type:

Vitreous Enamel Coated

Size / Dimension:

0.752" Dia x 6.496" L (19.10mm x 165.00mm)

Lead Style:

Tab

Failure Rate:

-

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8533.29.0000

Moisture Sensitivity Level (MSL):

Not Applicable

ECCN:

EAR99

# SWT/EWT Series

## Non-Flammable Edgewound Tubular Wirewound Resistor

Stackpole Electronics, Inc.  
Resistive Product Solutions

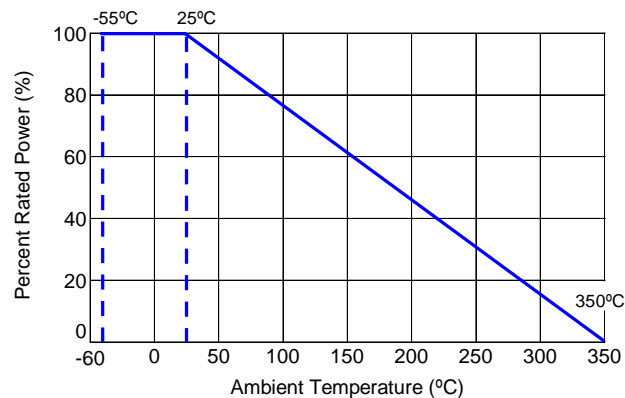
- Features:
- High current capability
  - RoHS compliant, lead-free and halogen-free
  - Non-inductive style only available with silicone coating (NSWT)
  - Suitable for soldering or thru bolt connections
  - Wirewound ribbon on ceramic substrate
  - SWT – Silicone coating provides temperature handling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



### Electrical Specifications

Type/Code (SWT, EWT, NSWT)	Power Rating (Watts) @ 25°C	Dielectric Strength VAC	Ohmic Range ( $\Omega$ ) and Tolerance 5%, 10%		
			SWT	NSWT	EWT
25	25W	2,500	0.1 - 30K	0.1 - 100	1 - 10K
50	50W	2,500	0.1 - 50K	0.1 - 275	1 - 20K
100	100W	2,500	0.1 - 100K	0.12 - 680	1 - 50K
225	225W	2,500	0.2 - 130K	0.3 - 1.7K	1 - 130K

### Power Derating Curve:



### Mechanical Specifications



Type/Code (SWT, EWT, NSWT)	OD	ID	L	F	E	G	Unit
25	0.563 ± 0.039	0.313 ± 0.039	2.008 ± 0.079	0.472 ± 0.039	0.177	0.079	inches
	14.30 ± 1.00	7.94 ± 1.00	51.00 ± 2.00	12.00 ± 1.00	4.50	2.00	mm
50	0.563 ± 0.039	0.313 ± 0.039	4.016 ± 0.079	0.748 ± 0.039	0.315	0.197	inches
	14.30 ± 1.00	7.94 ± 1.00	102.00 ± 2.00	19.00 ± 1.00	8.00	5.00	mm
100	0.752 ± 0.039	0.500 ± 0.039	6.496 ± 0.079	0.669 ± 0.039	0.315	0.197	inches
	19.10 ± 1.00	12.70 ± 1.00	165.00 ± 2.00	17.00 ± 1.00	8.00	5.00	mm
225	1.126 ± 0.039	0.752 ± 0.039	10.512 ± 0.079	0.709 ± 0.039	0.354	0.197	inches
	28.60 ± 1.00	19.10 ± 1.00	267.00 ± 2.00	18.00 ± 1.00	9.00	5.00	mm

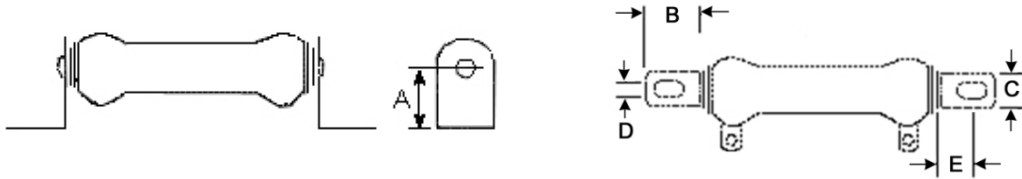
# SWT/EWT Series

## Non-Flammable Edgewound Tubular Wirewound Resistor

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

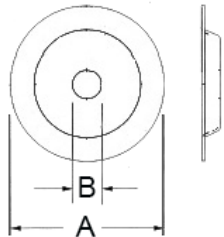
### Mounting Brackets Mechanical Specifications



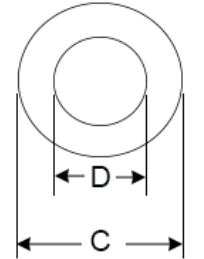
Resistor Power Rating	A	B	C	D	E	F	Unit
25W	1.000	0.750	0.500	0.219	0.438	0.177	inches
	25.40	19.05	12.70	5.56	11.13	4.50	mm
50W	1.000	0.750	0.500	0.219	0.438	0.315	inches
	25.40	19.05	12.70	5.56	11.13	8.00	mm
100W	1.000	0.750	0.500	0.219	0.438	0.315	inches
	25.40	19.05	12.70	5.56	11.13	8.00	mm
225W	1.500	0.875	1.250	0.281	0.563	0.354	inches
	38.10	22.23	31.75	7.14	14.30	9.00	mm

### Bolts and Washers Mechanical Specifications

Metal Centering Washer



Mica Insulating Washer



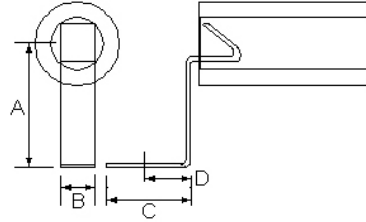
Resistor Power Rating	OD	Core Length	Bolt Length	Bolt No.	A	B	C	D	Unit
25W	0.563	2.008	2.500	10	0.560	0.190	0.750	0.313	inches
	14.30	51.00	63.50		14.22	4.83	19.05	7.95	mm
50W	0.563	4.016	4.750	10	0.560	0.190	0.750	0.313	inches
	14.30	102.00	120.65		14.22	4.83	19.05	7.95	mm
100W	0.752	6.496	7.000	10	0.750	0.190	1.000	0.500	inches
	19.10	165.00	177.80		19.05	4.83	25.40	12.70	mm
225W	1.126	10.512	11.250	0.25"	1.125	0.250	1.500	0.750	inches
	28.60	267.00	285.75		28.58	6.35	38.10	19.05	mm

# SWT/EWT Series

## Non-Flammable Edgewound Tubular Wirewound Resistor

Stackpole Electronics, Inc.  
Resistive Product Solutions

### Spring Clips Mechanical Specifications



Resistor Power Rating	A	B	C	D	Unit
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

### RoHS Compliance

Stackpole Electronics has joined the worldwide effort to reduce the amount of lead in electronic components and to meet the various regulatory requirements now prevalent, such as the European Union's directive regarding "Restrictions on Hazardous Substances" (RoHS 3). As part of this ongoing program, we periodically update this document with the status regarding the availability of our compliant components. All our standard part numbers are compliant to EU Directive 2011/65/EU of the European Parliament as amended by Directive (EU) 2015/863/EU as regards the list of restricted substances.

### RoHS Compliance Status

Standard Product Series	Description	Package / Termination Type	Standard Series RoHS Compliant	Lead-Free Termination Composition	Lead-Free Mfg. Effective Date (Std Product Series)	Lead-Free Effective Date Code (YY/WW)
SWT	Non-Flammable Edgewound Tubular Wirewound Silicone Coating Resistor	Special	YES	100% Matte Sn	Always	Always
EWT	Non-Flammable Edgewound Tubular Wirewound Vitreous Enamel Coating Resistor	Special	YES	100% Matte Sn	Always	Always

### "Conflict Metals" Commitment

We at Stackpole Electronics, Inc. are joined with our industry in opposing the use of metals mined in the "conflict region" of the eastern Democratic Republic of the Congo (DRC) in our products. Recognizing that the supply chain for metals used in the electronics industry is very complex, we work closely with our own suppliers to verify to the extent possible that the materials and products we supply do not contain metals sourced from this conflict region. As such, we are in compliance with the requirements of Dodd-Frank Act regarding Conflict Minerals.

### Compliance to "REACH"

We certify that all passive components supplied by Stackpole Electronics, Inc. are SVHC (Substances of Very High Concern) free and compliant with the requirements of EU Directive 1907/2006/EC, "The Registration, Evaluation, Authorization and Restriction of Chemicals", otherwise referred to as REACH. Contact us for complete list of REACH Substance Candidate List.

# SWT/EWT Series

## Non-Flammable Edgewound Tubular Wirewound Resistor

Stackpole Electronics, Inc.  
Resistive Product Solutions

### Environmental Policy

It is the policy of Stackpole Electronics, Inc. (SEI) to protect the environment in all localities in which we operate. We continually strive to improve our effect on the environment. We observe all applicable laws and regulations regarding the protection of our environment and all requests related to the environment to which we have agreed. We are committed to the prevention of all forms of pollution.

### 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		Type		Power		Tolerance		Packaging				Resistance Value
Code	Description	Code	Description	Code	Power	Code	Tol	Code	Description	Size	Quantity	Four characters with the multiplier used as the decimal holder.  1 ohm = 1R00 10 Kohm = 10K0 100 Kohm = 100K0
SWT	Silicone Coating (std)	-	Std Tab Connection	25	25W	J	5%	B	Bulk	All Sizes	Each	
EWT	Vitreous Enamel	M	Mounting Hardware	50	50W	K	10%					
NSWT	Non-inductive Silicone Coating	S	Spring Clips	100	100W							
		L	Welded Straight Leads	225	225W							
		A	Adjustable									

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