

Solid Tantalum Surface Mount Capacitors TANTAMOUNT® Conformal Coated, Low ESR, Military, MIL-PRF-55365/13 Qualified



PERFORMANCE CHARACTERISTICS

Operating Temperature: - 55 °C to + 125 °C (above 85 °C, voltage derating is required)

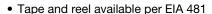
Capacitance Range: 10 μ F to 100 μ F

Capacitance Tolerance: \pm 5 %, \pm 10 %, \pm 20 %

Voltage Rating: 15 V_{DC} to 35 V_{DC}

FEATURES

- Weibull failure rates B, C, T
- Low ESR





 Termination finishes available: Gold plate, solder plated, solder fused, and hot solder dipped

 Material categorization: For definitions of compliance please see <u>www.vishay.com/doc?99912</u>

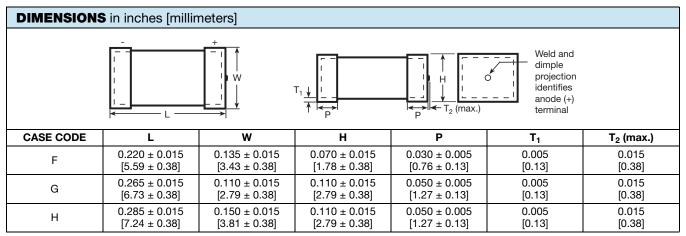
Note

This datasheet provides information about parts that are RoHS-compliant and/or parts that are non-RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information/tables in this datasheet for details.

ORDERING INFORMATION								
CWR26	Н	В	106	K	В	F	Α	/TR
TYPE	VOLTAGE	TERMINATION FINISH	CAPACITANCE	CAPACITANCE TOLERANCE	FAILURE RATE %/1000 h	CASE CODE	SURGE CURRENT	PACKAGING
	H = 15 V K = 25 V M = 35 V	B = Gold C = Hot solder dipped	This is expressed in picofarads. The first two digits are $J = \pm 5\%$ $K = \pm 10\%$ $M = \pm 20\%$		B = 0.1 C = 0.01 T = 0.01 ⁽¹⁾	G	A = 3 cycles at + 25 °C B = 3 cycles at - 55 °C and + 85 °C	Blank = Bulk, plastic tray /FA = Waffle pack
H = Solder plated K = Solder fused		the significant figures. The third is the number of zeros to follow.				C = 3 cycles at - 55 °C and + 85 °C (before Weibull grading) Z = No surge current	/PR = 100 pcs reel /HR = Half reel /TR = Full reel	

Note

(1) T level requires surge current option "C". Capacitors are recommended for "space applications". Shipped in tape and reel/or waffle packaging only.



Note

When solder coated terminations are required, add 0.015" [0.38 mm] to termination dimension tolerance.



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RATINGS AND CASE CODES						
μF	15 V	25 V	35 V			
10	F	G	Н			
22	G					
33	F					
100	Н					

STANDARD RATINGS									
CAPACITANCE	CASE	PART NUMBER	MAX. DCL (μA) AT			MAX. DF (%) AT			MAX. ESR AT + 25 °C
(μF)			+ 25 °C	+ 85 °C	+ 125 °C	+ 25 °C	+ 85 °C + 125 °C	- 55 °C	100 kHz (Ω)
	15 V _{DC} AT + 85 °C; 10 V _{DC} AT + 125 °C								
10	F	CWR26H(1)106(2)(3)F(4)(5)	2	20	24	6	8	8	0.667
22	G	CWR26H(1)226(2)(3)G(4)(5)	4	40	48	6	8	8	0.275
33	F	CWR26H(1)336(2)(3)F(4)(5)	5	50	60	6	8	8	0.800
100	Н	CWR26H(1)107(2)(3)H(4)(5)	15	150	180	10	12	12	0.180
25 V _{DC} AT + 85 °C; 17 V _{DC} AT + 125 °C									
10	G	CWR26K(1)106(2)(3)G(4)(5)	3	30	36	6	8	8	0.350
	35 V _{DC} AT + 85 °C, 23 V _{DC} AT + 125 °C								
10	Н	CWR26M(1)106(2)(3)H(4)(5)	4	40	48	8	10	10	0.500

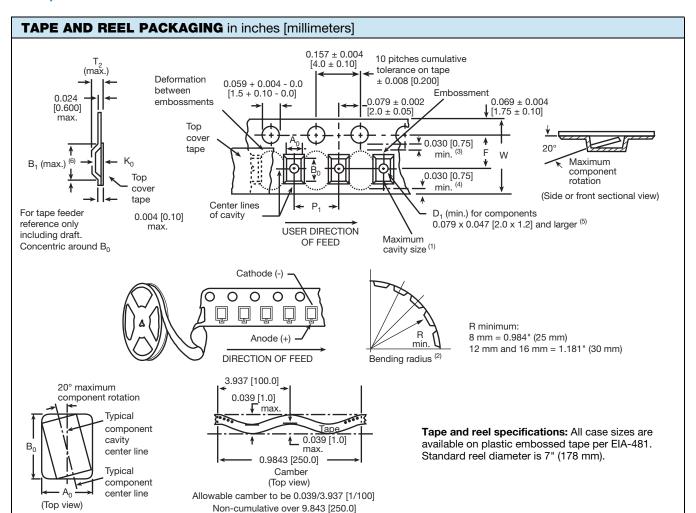
Note

- Part number definitions:
 - (1) Termination finish: B, C, H, K
 - (2) Capacitance tolerance: J, K, M
 - (3) Failure rate: B, C, T
 - (4) Surge current: A, B, C, Z
 - (5) Packaging: Blank, /FA, /HR, /PR, /TR



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- Metric dimensions will govern. Dimensions in inches are rounded and for reference only.
- A₀, B₀, K₀, are determined by the maximum dimensions to the ends of the terminals extending from the component body and/or the body dimensions of the component. The clearance between the ends of the terminals or body of the component to the sides and depth of the cavity (A₀, B₀, K₀) must be within 0.002" (0.05 mm) minimum and 0.020" (0.50 mm) maximum. The clearance allowed must also prevent rotation of the component within the cavity of not more than 20°.
- Tape with components shall pass around radius "R" without damage. The minimum trailer length may require additional length to provide "R" minimum for 12 mm embossed tape for reels with hub diameters approaching N minimum.
- This dimension is the flat area from the edge of the sprocket hole to either outward deformation of the carrier tape between the embossed cavities or to the edge of the cavity whichever is less.
- This dimension is the flat area from the edge of the carrier tape opposite the sprocket holes to either the outward deformation of the carrier tape between the embossed cavity or to the edge of the cavity whichever is less.
- The embossed hole location shall be measured from the sprocket hole controlling the location of the embossement. Dimensions of embossement location shall be applied independent of each other.
- B₁ dimension is a reference dimension tape feeder clearance only.

CARRIER TAPE DIMENSIONS in inches [millimeters]									
CASE CODE	TAPE SIZE	B ₁ (max.)	D ₁ (min.)	F	P ₁	T ₂ (max.)	W		
F	12 mm double pitch	0.323 [8.2]	0.059 [1.5]	0.217 ± 0.002 [5.5 ± 0.05]	0.315 ± 0.004 [8.0 ± 0.10]	0.256 [6.5]	0.472 ± 0.012 [12.0 ± 0.30]		
G, H	16 mm	0.476 [12.1]	0.059 [1.5]	0.295 ± 0.004 [7.5 ± 0.1]	0.315 ± 0.004 [8.0 ± 0.10]	0.315 [8.0]	0.642 max. [16.3] max.		



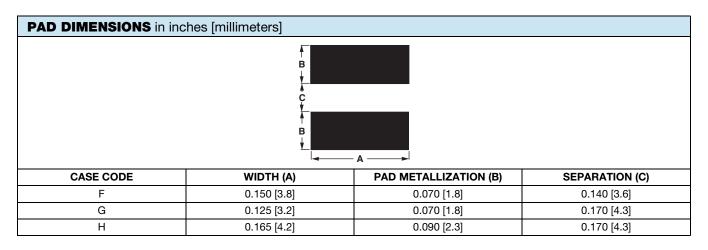
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STANDARD PACKAGING QUANTITY								
		BULK, PLASTIC						
CASE CODE	7", FULL REEL 7", HALF REEL (/TR) (/HR)		7", PARTIAL REEL (/PR)	TRAY QUANTITY (PCS)				
F	1000	500	100	75				
G	600	300	100	60				
Н	600	300	100	50				

Notes

- Bulk capacitors are shipped in plastic trays
- T level capacitors are only shipped in tape and reel/or waffle packaging. Contact factory for waffle pack quantities.



POWER DISSIPATION							
CASE CODE	MAXIMUM PERMISSIBLE POWER DISSIPATION AT + 25 °C (W) IN FREE AIR						
F	0.110						
G	0.120						
Н	0.150						

PRODUCT INFORMATION			
Conformal Coated Guide			
Pad Dimensions	www.vishay.com/doc?40150		
Packaging Dimensions			
Moisture Sensitivity	www.vishay.com/doc?40135		
SELECTOR GUIDES			
Solid Tantalum Selector Guide	www.vishay.com/doc?49053		
Solid Tantalum Chip Capacitors	www.vishay.com/doc?40091		
FAQ			
Frequently Asked Questions	www.vishay.com/doc?40110		



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Material Category Policy

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.

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