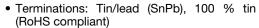


Solid-Electrolyte TANTALEX® Capacitors, Hermetically-Sealed, Axial-Lead



FEATURES





 These high performance, hermetically-sealed TANTALEX[®] capacitors have set the standard for solid-electrolyte tantalum capacitors for more than three decades RoHS'

- High capacitance, low DCL, low dissipation factor and exceptional operating stability
- Performance and reliability have been proven in commercial, industrial and military applications
- Available in four case codes and capacitors and are supplied with plastic-film insulation
- Terminals are solid, tinned nickel wire leads
- The military equivalent to the 150D is the M39003/01 (style CSR13) which is qualified to MIL-PRF-39003
- Material categorization: For definitions of compliance please see <u>www.vishav.com/doc?99912</u>

Note

* Lead (Pb)-containing terminations are not RoHS-compliant. Exemptions may apply.

PERFORMANCE CHARACTERISTICS

Operating Temperature: - 55 °C to + 125 °C (above 85 °C, voltage derating is required) **Capacitance Tolerance:** At 120 Hz, + 25 °C

± 20 %, ± 10 % standard. ± 5 % available as special

Dissipation Factor: At 120 Hz, + 25 °C **DC Leakage Current (DCL Max.):**

At + 25 °C: Leakage current shall not exceed the values listed in the Standard Ratings table

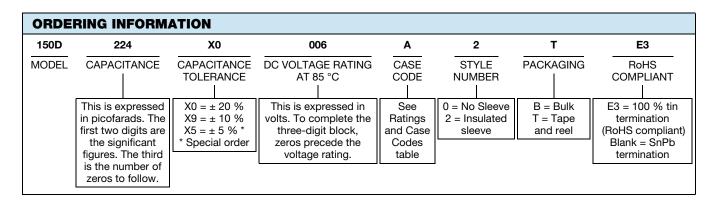
At + 85 °C: Leakage current shall not exceed 10 times the values listed in the Standard Ratings table

At + 125 °C: Leakage shall not exceed 15 times the values listed in the Standard Ratings table

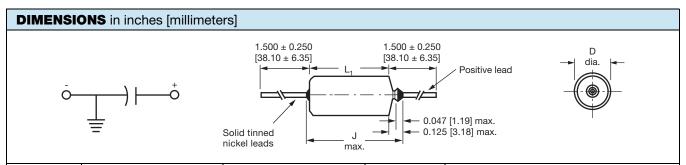
Life Test: Capacitors shall withstand rated DC voltage applied at + 85 °C for 2000 h or derated DC voltage applied at + 125 °C for 1000 h

Following the life test:

- 1. DCL shall not exceed 125 % of the initial requirement
- 2. Dissipation factor shall meet the initial requirement
- 3. Change in capacitance shall not exceed \pm 5 %



Vishay Sprague



CASE CODE	D	L ₁	J	LEAD SIZE		
WITH INSULATING SLE		ING SLEEVE (1)	G SLEEVE (1) (MAXIMUM)		NOMINAL DIAMETER	
Α	0.135 ± 0.016 [3.43 ± 0.41]	0.286 ± 0.031 [7.26 ± 0.79]	0.422 [10.720]	24	0.020 [0.51]	
В	0.185 ± 0.016 [4.70 ± 0.41]	0.474 ± 0.031 [12.04 ± 0.79]	0.610 [15.490]	24	0.020 [0.51]	
R	0.289 ± 0.016 [7.34 ± 0.41]	$0.686 \pm 0.031 [17.42 \pm 0.79]$	0.822 [20.880]	22	0.025 [0.64]	
S	0.351 ± 0.016 [8.92 ± 0.41]	$0.786 \pm 0.031 [19.96 \pm 0.79]$	0.922 [23.420]	22	0.025 [0.64]	

Note

(1) When a shrink-fitted insulation is used, it shall lap over the ends of the capacitor body

CAPACITANCE (μF)	CASE CODE	PART NUMBER	MAX. DCL AT + 25 °C (μΑ)	MAX. DF AT + 25 °C 120 Hz (%)
	6 V _{DC} AT + 85 °C,	SURGE = 8 V; 4 V _{DC} AT + 125	°C, SURGE = 5 V	
0.22	А	150D224(1)006A2	0.5	2
0.27	Α	150D274(1)006A2	0.5	2
0.33	Α	150D334(1)006A2	0.5	2
0.39	Α	150D394(1)006A2	0.5	2
0.47	Α	150D474(1)006A2	0.5	2
0.56	Α	150D564(1)006A2	0.5	2
0.68	Α	150D684(1)006A2	0.5	2
0.82	Α	150D824(1)006A2	0.5	2
1.0	Α	150D105(1)006A2	0.5	2
1.2	Α	150D125(1)006A2	0.5	4
1.5	Α	150D155(1)006A2	0.5	4
1.8	Α	150D185(1)006A2	0.5	4
2.2	Α	150D225(1)006A2	0.5	4
2.7	Α	150D275(1)006A2	0.5	4
3.3	Α	150D335(1)006A2	0.5	4
3.9	Α	150D395(1)006A2	0.5	4
4.7	Α	150D475(1)006A2	0.5	4
5.6	Α	150D565(1)006A2	0.5	4
6.8	Α	150D685(1)006A2	0.5	6
8.2	В	150D825(1)006B2	0.5	6
10	В	150D106(1)006B2	0.5	6
12	В	150D126(1)006B2	0.5	6
15	В	150D156(1)006B2	1.0	6
18	В	150D186(1)006B2	1.0	6

Note

Part number definitions:



Vishay Sprague

CAPACITANCE (μF)	CASE CODE	PART NUMBER	MAX. DCL AT + 25 °C (μΑ)	MAX. DF AT + 25 °C 120 Hz
	6 V _{DC} ΔT ± 85 °C	SURGE = 8 V; 4 V _{DC} AT + 125		(%)
22	В	150D226(1)006B2	1.0	6
27	В	150D276(1)006B2	1.0	6
33	В	150D336(1)006B2	1.0	6
39	В	150D396(1)006B2	1.0	6
47	В	150D476(1)006B2	2.0	6
56	В	150D566(1)006B2	2.0	6
68	R	150D686(1)006R2	3.0	6
82	R	150D826(1)006R2	3.0	6
100	R	150D107(1)006R2	3.0	6
120	R	150D127(1)006R2	3.0	6
150	R	150D157(1)006R2	6.0	6
180	R	150D187(1)006R2	6.0	6
220	S	150D227(1)006S2	6.0	8
270	S	150D277(1)006S2	6.0	8
330	S	150D337(1)006S2	10.0	8
		SURGE = 13 V; 7 V _{DC} AT + 12		-
0.22	A	150D224(1)010A2	0.5	2
0.27	Α	150D274(1)010A2	0.5	2
0.33	Α	150D334(1)010A2	0.5	2
0.39	Α	150D394(1)010A2	0.5	2
0.47	Α	150D474(1)010A2	0.5	2
0.56	Α	150D564(1)010A2	0.5	2
0.68	Α	150D684(1)010A2	0.5	2
0.82	Α	150D824(1)010A2	0.5	2
1.0	Α	150D105(1)010A2	0.5	2
1.2	Α	150D125(1)010A2	0.5	4
1.5	Α	150D155(1)010A2	0.5	4
1.8	Α	150D185(1)010A2	0.5	4
2.2	Α	150D225(1)010A2	0.5	4
2.7	Α	150D275(1)010A2	0.5	4
3.3	Α	150D335(1)010A2	0.5	4
3.9	Α	150D395(1)010A2	0.5	4
4.7	Α	150D475(1)010A2	0.5	4
5.6	В	150D565(1)010B2	0.5	4
6.8	В	150D685(1)010B2	1.0	6
8.2	В	150D825(1)010B2	1.0	6
10	В	150D106(1)010B2	1.0	6
12	В	150D126(1)010B2	1.0	6
15	В	150D156(1)010B2	1.0	6
18	В	150D186(1)010B2	1.0	6
22	В	150D226(1)010B2	2.0	6
27	В	150D276(1)010B2	2.0	6

Note

[•] Part number definitions:



Vishay Sprague

MAX DCI MAX. DF						
CAPACITANCE (μF)	CASE CODE	PART NUMBER	MAX. DCL AT + 25 °C (μΑ)	AT + 25 °C 120 Hz (%)		
	10 V _{DC} AT + 85 °C,	SURGE = 13 V; 7 V _{DC} AT + 12	25 °C, SURGE = 9 V	· · ·		
33	В	150D336(1)010B2	2.0	6		
39	В	150D396(1)010B2	2.0	6		
47	R	150D476(1)010R2	3.0	6		
56	R	150D566(1)010R2	3.0	6		
68	R	150D686(1)010R2	3.0	6		
82	R	150D826(1)010R2	3.0	6		
100	R	150D107(1)010R2	6.0	6		
120	R	150D127(1)010R2	6.0	6		
150	S	150D157(1)010S2	10.0	6		
180	S	150D187(1)010S2	10.0	6		
220	S	150D227(1)010S2	10.0	8		
	15 V _{DC} AT + 85 °C, \$	SURGE = 20 V; 10 V _{DC} AT + 12	25 °C, SURGE = 12 V			
0.22	Α	150D224(1)015A2	0.5	2		
0.27	Α	150D274(1)015A2	0.5	2		
0.33	Α	150D334(1)015A2	0.5	2		
0.39	Α	150D394(1)015A2	0.5	2		
0.47	Α	150D474(1)015A2	0.5	2		
0.56	Α	150D564(1)015A2	0.5	2		
0.68	Α	150D684(1)015A2	0.5	2		
0.82	Α	150D824(1)015A2	0.5	2		
1.0	Α	150D105(1)015A2	0.5	2		
1.2	Α	150D125(1)015A2	0.5	4		
1.5	Α	150D155(1)015A2	0.5	4		
1.8	Α	150D185(1)015A2	0.5	4		
2.2	Α	150D225(1)015A2	0.5	4		
2.7	Α	150D275(1)015A2	0.5	4		
3.3	Α	150D335(1)015A2	0.5	4		
3.9	В	150D395(1)015B2	0.5	4		
4.7	В	150D475(1)015B2	1.0	4		
5.6	В	150D565(1)015B2	1.0	4		
6.8	В	150D685(1)015B2	1.0	6		
8.2	В	150D825(1)015B2	1.0	6		
10	В	150D106(1)015B2	1.0	6		
12	В	150D126(1)015B2	1.0	6		
15	В	150D156(1)015B2	2.0	6		
18	В	150D186(1)015B2	2.0	6		
22	В	150D226(1)015B2	3.0	6		
27	R	150D276(1)015R2	3.0	6		
33	R	150D336(1)015R2	3.0	6		
39	R	150D396(1)015R2	3.0	6		
47	R	150D476(1)015R2	6.0	6		

Note

[•] Part number definitions:



Vishay Sprague

CAPACITANCE (μF)	CASE CODE	PART NUMBER	MAX. DCL AT + 25 °C (μΑ)	MAX. DF AT + 25 °C 120 Hz (%)
	15 V _{DC} AT + 85 °C, \$	SURGE = 20 V; 10 V _{DC} AT + 12	25 °C, SURGE = 12 V	
68	R	150D686(1)015R2	6.0	6
82	S	150D826(1)015S2	6.0	6
100	S	150D107(1)015S2	6.0	6
120	S	150D127(1)015S2	6.0	6
150	S	150D157(1)015S2	10.0	6
	20 V _{DC} AT + 85 °C, 8	SURGE = 26 V; 13 V _{DC} AT + 12	25 °C, SURGE = 16 V	
0.033	Α	150D333(1)020A2	0.1	2
0.039	Α	150D393(1)020A2	0.1	2
0.047	Α	150D473(1)020A2	0.1	2
0.056	Α	150D563(1)020A2	0.1	2
0.068	Α	150D683(1)020A2	0.1	2
0.082	Α	150D823(1)020A2	0.1	2
0.10	Α	150D104(1)020A2	0.5	2
0.12	Α	150D124(1)020A2	0.5	2
0.15	Α	150D154(1)020A2	0.5	2
0.18	Α	150D184(1)020A2	0.5	2
0.22	Α	150D224(1)020A2	0.5	2
0.27	Α	150D274(1)020A2	0.5	2
0.33	Α	150D334(1)020A2	0.5	2
0.39	Α	150D394(1)020A2	0.5	2
0.47	Α	150D474(1)020A2	0.5	2
0.56	Α	150D564(1)020A2	0.5	2
0.68	Α	150D684(1)020A2	0.5	2
0.82	Α	150D824(1)020A2	0.5	2
1.0	Α	150D105(1)020A2	0.5	2
1.2	Α	150D125(1)020A2	0.5	4
1.5	Α	150D155(1)020A2	0.5	4
1.8	Α	150D185(1)020A2	0.5	4
2.2	Α	150D225(1)020A2	0.5	4
2.7	В	150D275(1)020B2	0.5	4
3.3	В	150D335(1)020B2	0.5	4
3.9	В	150D395(1)020B2	1.0	4
4.7	B -	150D475(1)020B2	1.0	4
5.6	В	150D565(1)020B2	1.0	4
6.8	В	150D685(1)020B2	1.0	6
8.2	B -	150D825(1)020B2	1.0	6
10	В	150D106(1)020B2	1.0	6
12	В	150D126(1)020B2	1.0	6
15	В	150D156(1)020B2	2.0	6
18	R	150D186(1)020R2	3.0	6
22 27	R R	150D226(1)020R2 150D276(1)020R2	3.0 3.0	6 6

Note

Part number definitions:
(1) For 10 % tolerance specify X9; for 20 % specify "X0"; for 5 % "X5" (special order)



Vishay Sprague

			MAX. DCL	MAX. DF
CAPACITANCE (μF)	CASE CODE	PART NUMBER	AT + 25 °C (μA)	AT + 25 °C 120 Hz (%)
	20 V _{DC} AT + 85 °C, S	SURGE = 26 V; 13 V _{DC} AT + 12	25 °C, SURGE = 16 V	
33	R	150D336(1)020R2	3.0	6
39	R	150D396(1)020R2	3.0	6
47	R	150D476(1)020R2	6.0	6
56	S	150D566(1)020S2	6.0	6
68	S	150D686(1)020S2	6.0	6
82	S	150D826(1)020S2	6.0	6
100	S	150D107(1)020S2	10.0	6
	25 V _{DC} AT + 85 °C, \$	SURGE = 32 V; 17 V _{DC} AT + 12	25 °C, SURGE = 21 V	
1.2	Α	150D125(1)025A2	0.5	4
1.5	Α	150D155(1)025A2	0.5	4
1.8	Α	150D185(1)025A2	0.5	4
4.7	В	150D475(1)025B2	1.2	4
5.6	В	150D565(1)025B2	1.4	4
6.8	В	150D685(1)025B2	1.7	4
8.2	В	150D825(1)025B2	2.1	4
10	В	150D106(1)025B2	2.5	6
15	В	150D156(1)025B2	3.8	6
33	R	150D336(1)025R2	8.3	6
68	S	150D686(1)025S2	17	6
100	S	150D107(1)025S2	25	6
	35 V _{DC} AT + 85 °C, \$	SURGE = 46 V; 23 V _{DC} AT + 12	25 °C, SURGE = 28 V	
0.033	Α	150D333(1)035A2	0.1	2
0.039	Α	150D393(1)035A2	0.1	2
0.047	Α	150D473(1)035A2	0.1	2
0.056	Α	150D563(1)035A2	0.1	2
0.068	Α	150D683(1)035A2	0.1	2
0.082	Α	150D823(1)035A2	0.1	2
0.10	Α	150D104(1)035A2	0.5	2
0.12	Α	150D124(1)035A2	0.5	2
0.15	Α	150D154(1)035A2	0.5	2
0.18	Α	150D184(1)035A2	0.5	2
0.22	Α	150D224(1)035A2	0.5	2
0.27	Α	150D274(1)035A2	0.5	2
0.33	Α	150D334(1)035A2	0.5	2
0.39	Α	150D394(1)035A2	0.5	2
0.47	Α	150D474(1)035A2	0.5	2
0.56	Α	150D564(1)035A2	0.5	2
0.68	Α	150D684(1)035A2	0.5	2
0.82	Α	150D824(1)035A2	0.5	2
1.0	Α	150D105(1)035A2	0.5	2
1.2	В	150D125(1)035B2	0.5	4
1.5	В	150D155(1)035B2	0.5	4

Note

[•] Part number definitions:



Vishay Sprague

CAPACITANCE (μF)	CASE CODE	PART NUMBER	MAX. DCL AT + 25 °C (μΑ)	MAX. DF AT + 25 °C 120 Hz (%)
	35 V _{DC} AT + 85 °C, \$	SURGE = 46 V; 23 V _{DC} AT + 12	25 °C, SURGE = 28 V	
1.8	В	150D185(1)035B2	0.5	4
2.2	В	150D225(1)035B2	1.0	4
2.7	В	150D275(1)035B2	1.0	4
3.3	В	150D335(1)035B2	1.0	4
3.9	В	150D395(1)035B2	1.0	4
4.7	В	150D475(1)035B2	1.0	4
5.6	В	150D565(1)035B2	1.0	4
6.8	В	150D685(1)035B2	2.0	4
8.2	R	150D825(1)035R2	3.0	4
10	R	150D106(1)035R2	3.0	4
12	R	150D126(1)035R2	3.0	4
15	R	150D156(1)035R2	3.0	4
18	R	150D186(1)035R2	3.0	4
22	R	150D226(1)035R2	6.0	4
27	S	150D276(1)035S2	6.0	4
33	S	150D336(1)035S2	6.0	4
39	S	150D396(1)035S2	6.0	4
47	S	150D476(1)035S2	10.0	4
	50 V _{DC} AT + 85 °C, \$	SURGE = 65 V; 33 V _{DC} AT + 12	25 °C, SURGE = 40 V	
0.056	Α	150D563(1)050A2	0.1	2
0.068	Α	150D683(1)050A2	0.1	2
0.082	Α	150D823(1)050A2	0.1	2
0.10	Α	150D104(1)050A2	0.5	2
0.12	Α	150D124(1)050A2	0.5	2
0.15	Α	150D154(1)050A2	0.5	2
0.18	Α	150D184(1)050A2	0.5	2
0.22	Α	150D224(1)050A2	0.5	2
0.27	A	150D274(1)050A2	0.5	2
0.33	A	150D334(1)050A2	0.5	2
0.39	A	150D394(1)050A2	0.5	2
0.47	A	150D474(1)050A2	0.5	2
0.56	A	150D564(1)050A2	0.5	2
0.68	A	150D684(1)050A2	0.5	2
0.82	A	150D824(1)050A2	0.5	2
1.0	A	150D105(1)050A2	0.5	2
1.2	В	150D125(1)050B2	0.5	4
1.5	В	150D155(1)050B2	0.5	4
1.8	В	150D185(1)050B2	0.5	4
2.2	В	150D225(1)050B2	1.0	4
2.7	В	150D275(1)050B2	1.0	4
3.3 3.9	В В	150D335(1)050B2 150D395(1)050B2	2.0 2.0	4 4

Note

Part number definitions:
(1) For 10 % tolerance specify X9; for 20 % specify "X0"; for 5 % "X5" (special order)



Vishay Sprague

CAPACITANCE (μF)	CASE CODE	PART NUMBER	MAX. DCL AT + 25 °C (μΑ)	MAX. DF AT + 25 °C 120 Hz (%)
	50 V _{DC} AT + 85 °C, S	SURGE = 65 V; 33 V _{DC} AT + 12	25 °C, SURGE = 40 V	
4.7	В	150D475(1)050B2	3.0	4
5.6	R	150D565(1)050R2	3.0	4
6.8	R	150D685(1)050R2	3.0	4
8.2	R	150D825(1)050R2	3.0	4
10	R	150D106(1)050R2	3.0	4
12	R	150D126(1)050R2	3.0	4
15	R	150D156(1)050R2	6.0	4
18	R	150D186(1)050R2	6.0	4
22	S	150D226(1)050S2	6.0	4
	60 V _{DC} AT + 85 °C, \$	SURGE = 78 V; 40 V _{DC} AT + 12	25 °C, SURGE = 49 V	
0.10	Α	150D104(1)060A2	0.5	4.0
0.12	Α	150D124(1)060A2	0.5	4.0
0.15	Α	150D154(1)060A2	0.5	4.0
0.18	Α	150D184(1)060A2	0.5	4.0
0.22	Α	150D224(1)060A2	0.5	4.0
0.27	Α	150D274(1)060A2	0.5	4.0
0.33	Α	150D334(1)060A2	0.5	4.0
0.39	Α	150D394(1)060A2	0.5	4.0
0.47	Α	150D474(1)060A2	0.5	4.0
0.56	Α	150D564(1)060A2	0.5	4.0
0.68	Α	150D684(1)060A2	0.5	4.0
1.0	В	150D105(1)060B2	0.5	4.0
2.2	В	150D225(1)060B2	1.0	4.0
4.7	R	150D475(1)060R2	3.0	6.0
5.6	R	150D565(1)060R2	3.0	6.0
6.8	R	150D685(1)060R2	4.0	6.0
8.2	R	150D825(1)060R2	5.0	6.0
10	R	150D106(1)060R2	6.0	6.0
12	S	150D126(1)060S2	6.0	6.0
15	S	150D156(1)060S2	9.0	6.0
18	S	150D186(1)060S2	10.0	6.0
22	S	150D226(1)060S2	12.0	6.0
		SURGE = 98 V; 50 V _{DC} AT + 12		
0.033	Α	150D333(1)075A2	0.5	2
0.039	Α	150D393(1)075A2	0.5	2
0.047	Α	150D473(1)075A2	0.5	2
0.056	Α	150D563(1)075A2	0.5	2
0.068	Α	150D683(1)075A2	0.5	2
0.082	Α	150D823(1)075A2	0.5	2
0.10	Α	150D104(1)075A2	0.5	2
0.12	Α	150D124(1)075A2	0.5	2
0.12	A	150D154(1)075A2	0.5	2

Note

[•] Part number definitions:

⁽¹⁾ For 10 % tolerance specify X9; for 20 % specify "X0"; for 5 % "X5" (special order)



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0.18		PART NUMBER	AT + 25 °C (μΑ)	AT + 25 °C 120 Hz (%)
0.18	75 V _{DC} AT + 85 °C, \$	SURGE = 98 V; 50 V _{DC} AT + 12	25 °C, SURGE = 64 V	
	А	150D184(1)075A2	0.5	2
0.22	Α	150D224(1)075A2	0.5	2
0.27	Α	150D274(1)075A2	0.5	2
0.33	Α	150D334(1)075A2	0.5	2
0.39	Α	150D394(1)075A2	0.5	2
0.47	Α	150D474(1)075A2	0.5	2
0.56	Α	150D564(1)075A2	0.5	2
0.68	Α	150D684(1)075A2	0.5	2
0.82	В	150D824(1)075B2	0.5	2
1.0	В	150D105(1)075B2	0.5	2
1.2	В	150D125(1)075B2	0.5	4
1.5	В	150D155(1)075B2	1.0	4
1.8	В	150D185(1)075B2	1.0	4
2.2	В	150D225(1)075B2	1.0	4
2.7	В	150D275(1)075B2	1.0	4
3.3	В	150D335(1)075B2	2.0	4
3.9	В	150D395(1)075B2	2.0	4
4.7	R	150D475(1)075R2	4.0	4
5.6	R	150D565(1)075R2	4.0	4
6.8	R	150D685(1)075R2	6.0	4
8.2	R	150D825(1)075R2	6.0	4
10	R	150D106(1)075R2	8.0	4
12	S	150D126(1)075S2	10.0	4
15	S	150D156(1)075S2	12.0	4
	100 V _{DC} AT + 85 °C, \$	SURGE = 130 V; 67 V _{DC} AT + 1	25 °C, SURGE = 86 V	
0.033	Α	150D333(1)100A2	0.5	2
0.039	Α	150D393(1)100A2	0.5	2
0.047	Α	150D473(1)100A2	0.5	2
0.056	Α	150D563(1)100A2	0.5	2
0.068	Α	150D683(1)100A2	0.5	2
0.082	Α	150D823(1)100A2	0.5	2
0.10	Α	150D104(1)100A2	0.5	2
0.12	Α	150D124(1)100A2	0.5	2
0.15	Α	150D154(1)100A2	0.5	2
0.18	Α	150D184(1)100A2	0.5	2
0.22	Α	150D224(1)100A2	0.5	2
0.27	Α	150D274(1)100A2	0.5	2
0.33	Α	150D334(1)100A2	0.5	2
0.39	Α	150D394(1)100A2	0.5	2
0.47	Α	150D474(1)100A2	0.5	2
0.56 0.68	A B	150D564(1)100A2 150D684(1)100B2	0.5 0.5	2 2

Note

[•] Part number definitions:



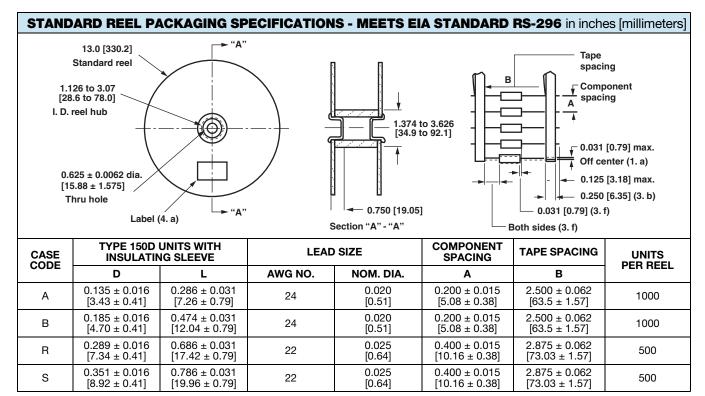
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			MAX. DCL	MAX. DF
CAPACITANCE (μF)	CASE CODE	PART NUMBER	MAX. DCL AT + 25 °C (μΑ)	AT + 25 °C 120 Hz (%)
	100 V _{DC} AT + 85 °C, S	SURGE = 130 V; 67 V _{DC} AT + 1	25 °C, SURGE = 86 V	(70)
0.82	В	150D824(1)100B2	0.5	2
1.0	В	150D105(1)100B2	0.5	2
1.2	В	150D125(1)100B2	0.5	3
1.5	В	150D155(1)100B2	0.6	3
1.8	В	150D185(1)100B2	0.6	3
2.2	В	150D225(1)100B2	0.6	3
2.7	В	150D275(1)100B2	0.6	3
3.3	R	150D335(1)100R2	2.5	3
3.9	R	150D395(1)100R2	3.0	3
4.7	R	150D475(1)100R2	4.0	3
5.6	R	150D565(1)100R2	4.0	3
6.8	R	150D685(1)100R2	6.0	3
8.2	S	150D825(1)100S2	6.0	3
10	S	150D106(1)100S2	6.0	3
	125 V _{DC} AT + 85 °C, S	SURGE = 140 V; 82 V _{DC} AT + 1	25 °C, SURGE = 94 V	
0.027	А	150D273(1)125A2	1.0	2
0.033	Α	150D333(1)125A2	1.0	2
0.039	Α	150D393(1)125A2	1.0	2
0.047	Α	150D473(1)125A2	1.0	2
0.056	Α	150D563(1)125A2	1.0	2
0.068	Α	150D683(1)125A2	1.0	2
0.082	Α	150D823(1)125A2	1.0	2
0.10	Α	150D104(1)125A2	1.0	2
0.12	Α	150D124(1)125A2	1.0	2
0.15	Α	150D154(1)125A2	1.0	2
0.18	Α	150D184(1)125A2	1.0	2
0.22	Α	150D224(1)125A2	1.0	2
0.27	Α	150D274(1)125A2	1.0	2
0.33	Α	150D334(1)125A2	1.0	2
0.39	Α	150D394(1)125A2	1.5	2
0.47	Α	150D474(1)125A2	1.5	2
0.56	В	150D564(1)125B2	1.6	2
0.68	В	150D684(1)125B2	1.8	2
0.82	В	150D824(1)125B2	2.0	2
1.0	В	150D105(1)125B2	2.0	2
1.2	В	150D125(1)125B2	2.0	3
1.5	В	150D155(1)125B2	2.0	3
1.8	В	150D185(1)125B2	2.0	3
2.2	В	150D225(1)125B2	2.0	3

Note

[•] Part number definitions:





STANDARD REEL PACKAGING INFORMATION

1. Component Leads

- a. Component leads shall not be bent beyond 0.047" [1.19 mm] maximum from their nominal position when measured from the leading edge of the component lead at the inside tape edge and at the lead egress from the component.
- b. The "C" dimension shall be governed by the overall length of the reel packaged component. The distance between flanges shall be 0.125" to 0.250" [3.18 mm to 6.35 mm] greater than the overall component length.

2. Orientation

All polarized components must be oriented to one direction. The cathode lead tape shall be a color and the anode lead tape shall be white.

3. Reeling

- a. Components on any reel shall not represent more than two date codes when date code identification is required.
- b. Component leads shall be positioned between pairs of 0.250" [6.35 mm] tape.
- c. The disposable reels have hubs and corrugated fibreboard flanges and core or equivalent.
- d. A minimum of 12.0" [304.8 mm] leader of tape shall be provided before the first and after the last component on the reel.
- e. 50 lb or 60 lb. Kraft paper must be wound between layer of components as far as necessary for component protection. Width of paper to be 0.062" to 0.250" [1.57 mm to 6.35 mm] less than the "C" dimension of the reel. Solid-electrolyte Tantalex® capacitors hermetically-sealed, axial-lead.

- f. A row of components must be centered between tapes \pm 0.047" [1.19 mm]. In addition, individual components may deviate from center of component row \pm 0.031" [0.79 mm].
- g. Staples shall not be used for splicing. Not more than 4 layers of tape shall be used in any splice area and no tape shall be offset from another by more than 0.031" [0.79 mm] non-cumulative. Tape splices shall overlap at least 6.0" [152.4 mm] for butt joints and at least 3.0" [76.2 mm] for lap joints and shall not be weaker than unspliced tape. Universal splicing clips may also be used.
- h. Quantity per reel shall be controlled so that tape components and cover shall not extend beyond the smallest dimension of the flange (either across flats or diameter). Once the quantity per reel for each part number has been established, future orders for that part number shall be packaged in that quantity. When order or release quantity is less than the established quantity, a standard commercial pack is to be used.
- A maximum of 0.25 % of the components per reel quantity may be missing without consecutive missing components.
- Adequate protection must be provided to prevent physical damage to both reel and components during shipment and storage.

4. Marking

Minimum reel and carton marking shall consist of the following: Customer part number, purchase order no., quantity, package date, manufacturer's name, electrical value, date code, Vishay Sprague part number and country of origin.



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Revision: 02-Oct-12 Document Number: 91000