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Vishay

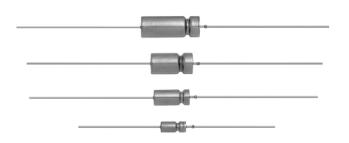
RoHS

HALOGEN FREE

**GREEN** 

(5-2008)

# Wet Tantalum Capacitors Silver Case With Glass-to-Metal Hermetic Seal, TANTALEX™



### **LINKS TO ADDITIONAL RESOURCES**



#### PERFORMANCE CHARACTERISTICS

**Operating Temperature:** -55 °C to +85 °C (+125 °C with voltage derating)

Capacitance Range:

 $3.3 \, \mu F$  to  $1200 \, \mu F$ 

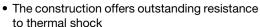
**Capacitance Tolerance:** 

± 10 %, ± 20 %, ± 5 % (special order)

Voltage Rating: 6 V<sub>DC</sub> to 125 V<sub>DC</sub>

#### **FEATURES**

- Terminations: axial, standard tin / lead (SnPb), 100 % tin (RoHS-compliant) available
- High CV per unit volume
- · Extremely low leakage current
- Improved reliability through the use of a glass-to-metal true hermetic anode seal is the prime feature of the 738D TANTALEX capacitors



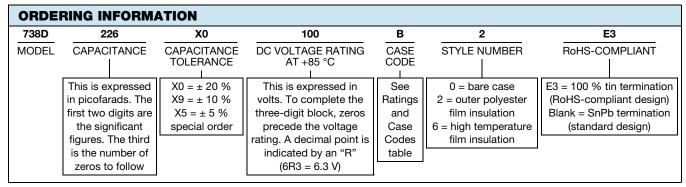
 Material categorization: for definitions of compliance please see <a href="https://www.vishay.com/doc?99912">www.vishay.com/doc?99912</a>

#### 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

**DC Leakage Current (DCL Max.):** at +25 °C, +85 °C, and +125 °C: leakage current shall not exceed the values listed in the Standard Ratings tables.

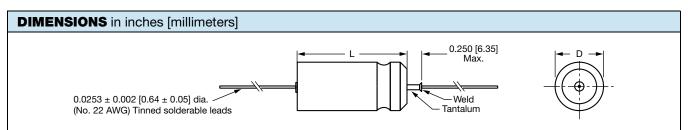
**Life Test:** capacitors are capable of withstanding a 2000 h life test at a temperature of +85 °C or +125 °C at the applicable rated DC working voltage.



#### Note

Packaging: the use of formed plastic trays for packaging these axial lead components is standard. Tape and reel is not available due to the
unit weight





CASE	D	L	D (MAX.)	L (1)		MAX. WEIGHT (oz. / g)	
CODE	В	SARE TUBE	WITH ( PLASTIC-FILM		LEAD LENGTH		
Α	0.188 ± 0.016	0.453 + 0.031 / - 0.016	0.219	0.608	1.500 ± 0.250	0.07	
	[4.78 ± 0.41]	[11.51 + 0.79 / - 0.41]	[5.56]	[15.45]	[38.10 ± 6.35]	[2.0]	
В	0.281 ± 0.016	0.641 + 0.031 / - 0.016	0.312	0.796	2.250 ± 0.250	0.18	
	[7.14 ± 0.41]	[16.28 + 0.79 / - 0.41]	[7.92]	[20.22]	[57.15 ± 6.35]	[5.1]	
С	0.375 ± 0.016	0.766 + 0.031 / - 0.016	0.406	0.921	2.250 ± 0.250	0.36	
	[9.53 ± 0.41]	[19.46 + 0.79 / - 0.41]	[10.31]	[23.40]	[57.15 ± 6.35]	[10.2]	
D	0.375 ± 0.016	1.062 + 0.031 / - 0.023	0.406	1.127	2.250 ± 0.250	0.49	
	[9.53 ± 0.41]	[26.97 + 0.79 / - 0.58]	[10.31]	[30.91]	[57.15 ± 6.35]	[13.9]	

### Note

(1) For reference only

μF	6.3	8	10	16	25	30	40	50	63	75	100	125
3.3		-	<u> </u>									A
3.9											Α	Α
4.7											Α	
5.6										Α		
6.8										Α		
8.2									Α			
10								Α				В
12							Α					В
15						Α						В
18					Α						В	С
22					Α						В	С
27				Α					Α	В		С
33				Α						В	С	
39			Α						В		С	D
47			Α					В			С	D
50					В							
56		Α					В			С		D
68	Α					В			С		D	
82					В			С			D	
100				Α	В		С			D		
120				В		С				D		
150			В			С			D			
180			В		С			D				
220		В		С			D					
270	В			С		D						
300						С						
330			С		D							
390			С		D							
470		С		D								
560	С			D								
680			D									
820		D										
1000	D											
1200	D											



CAPACITANCE GABE PART NUMBER A MAX. DR. A MAX. LIND. MAX. LIND. MAX. LIND. MAX. LIND. MAX. LIND. MAX. CAPACITANCE (%) AT MEDIANCE (%) AT MEDIA	STANDARD	RATI	NGS										
AT -50				MAY DE	MAX. IMP.	MAX. IMP.							
100 Hg				PART NUMBER	IVIAA. DE	AT -55 °C	AT +20°C	(µA	-		•	•	
6.3 V <sub>DC</sub> AT +85 °C; 4 V <sub>DC</sub> AT +125 °C; 3 V <sub>DC</sub> AT +175 °C  68 A 738D686X06R3A2 17.1 10 1.0 1 2 -40 +10.5 +17.5 72  270 B 738D587X06R3C2 15.9 10 1.0 1 7 -44 +17.5 +20 30  560 C 738D567X06R3C2 15.19 10 1.0 2 13 -64 +17.5 +20 30  1000 D 738D102X06R3D2 120.6 10 1.0 3 14 -80 +25 +25 -1  1200 D 738D12X06R3D2 120.6 10 1.0 3 14 -80 +25 +25 -2  8 V <sub>DC</sub> AT -85 °C; 5 V <sub>DC</sub> AT -125 °C; 4 V <sub>DC</sub> AT +175 °C  56 A 738D56X006B2 14.1 10 1.0 1 7 -44 +17.5 +20 -3  220 B 738D227X006B2 55.2 10 1.0 1 7 -44 +17.5 +20 -3  220 B 738D227X006B2 55.2 10 1.0 1 7 -44 +17.5 +20 -3  220 B 738D227X006B2 15.5 10 1.0 4 16 -80 +25 +25 -25  8 V <sub>DC</sub> AT -85 °C; 6 V <sub>DC</sub> AT +125 °C; 5 V <sub>DC</sub> AT +175 °C  39 A 738D36X010A2 15.1 10 1.0 1 2 -36 +12 +16 12  47 A 738D37X0010A2 15.1 10 1.0 1 2 -36 +14 +16 12  47 A 738D37X0010A2 15.1 10 1.0 1 2 -36 +14 +16 12  47 A 738D37X0010A2 15.1 10 1.0 1 6 -36 +14 +16 12  48 B 738D17X0010B2 48.2 10 1.0 1 6 -36 +14 +16 4 12  390 C 738D37X0010A2 15.1 10 1.0 1 7 -36 +14 +16 4 12  390 C 738D37X0010A2 15.1 10 1.0 1 0 1 7 -36 +14 +16 4 12  390 C 738D37X0010A2 15.1 10 1.0 1 0 1 7 -36 +14 +16 4 12  390 C 738D37X0010A2 15.1 10 1.0 1 0 1 7 -36 +14 +16 4 12  390 C 738D37X0010A2 15.1 10 1.0 1 0 1 7 -36 +14 +16 4 12  390 C 738D37X0010A2 15.1 10 1.0 1 0 1 7 -36 +14 +16 4 10 10  390 C 738D37X0010A2 15.1 10 1.0 1 0 2 16 -60 +17.5 +20 30  390 C 738D37X0010A2 15.1 10 1.0 1 0 2 16 -60 +17.5 +20 30  390 C 738D37X0010A2 13.3 10 1.0 1 0 2 16 -60 +17.5 +20 30  390 C 738D37X0010A2 13.3 10 1.0 1 0 2 16 -60 +17.5 +20 30  390 C 738D37X0010A2 10.3 10 1.0 1 0 4 4 +3 3 +16 88  47 738D37X0010A2 10.3 10 1.0 1 0 4 6 -80 +17.5 +20 30  390 C 738D37X0010A2 10.3 10 1.0 1 0 4 4 +3 +3 +16 88  48 738D37X0010A2 10.3 10 1.0 1 0 1 0 -44 +13 +16 10  49 738D47X0016A2 25.0 10 1.0 1 0 1 0 -44 +13 +16 10  40 738D47X0016A2 25.0 10 1.0 1 0 1 0 -44 +13 +16 10  40 738D47X0016A2 25.0 10 1.0 1 0 1 0 -44 +13 +16 10  40 738D47X0016A2 25.0 10 1.0 1 0 1 0 -44 +13 +16 10  40 738D47X0016A2 25.0 10 1.0 1 0 1 0 -2 8 +13 +15 6 6  40 738D47X0016A2 25.1 10 1.0 1 0 1 0 -2 8 +13 +15 6	(μ <b>F</b> )	CODE					+20 °C	+85 °C +125 °C	-55 °C	+85 °C	+125 °C		
68 A 738D69KX06R3A2 17.1 10 1.0 1 2 -40 +10.5 +17.5 72  72 77 B 738D27TX06R3B2 67.8 10 1.0 1 7 -44 +17.5 +20 30  560 C 738D67K06R3C2 151.9 10 1.0 2 13 -64 +17.5 +20 30  1000 D 738D108K06R3D2 100.5 10 1.0 3 14 -80 +25 +25 2  8 8 10 1 1.0 3 14 -80 +25 +25 2  8 8 10 1 1.0 3 14 -80 +25 +25 2  8 10 1 1.0 1 2 -40 1 1.0 5 14 6 -25 +25 2  8 10 1 1.0 1 2 -40 1 1.0 5 +16 -2 2  8 738D22TX0008B2 10.5 10 1.0 1 7 -44 +17.5 +20 3  56 A 738D56KX00BA2 14.1 10 1.0 1 2 -40 11.5 +16 -2 3  470 C 738D4TX0008B2 55.2 10 1.0 1 7 -44 +17.5 +20 -3 3  470 C 738D4TX0008B2 82.6 10 1.0 2 14 -84 +17.5 +20 -3 3  820 D 738D82TX0008B2 151.5 10 1.0 4 16 80 +25 +25 -2 5  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			6.3 \	/pc AT +85	°C: 4 Vnc A	T +125 °C: :	3 Vpc AT	+175 °C	<u> </u>			(52)	
Seb	68	Α								+10.5	+17.5	72	
1000	270	В	738D277X06R3B2	67.8	10	1.0	1	7	-44	+17.5	+20	30	
1200   D   738D128X06R3D2   120.6   10   1.0   3   14   80   +25   +25   24	560	С	738D567X06R3C2	151.9	10	1.0	2	13	-64	+17.5	+20	30	
S	1000	D	738D108X06R3D2	100.5	10	1.0	3	14	-80	+25	+25	-	
Second   S	1200	D	738D128X06R3D2	120.6	10	1.0	3	14	-80	+25	+25	24	
220			8 V	<sub>DC</sub> AT +85 °	C; 5 V <sub>DC</sub> AT	+125 °C; 4	V <sub>DC</sub> AT	+175 °C					
470	56	Α	738D566X0008A2	14.1	10	1.0	1	2	-40	+10.5	+16	-	
820   D   738D827X0008D2   51.5   10   1.0   4   16   80   +25   +25   -25	220	В	738D227X0008B2	55.2	10	1.0	1	7	-44	+17.5	+20	-	
10 V <sub>DC</sub> AT +85 °C; 6.3 V <sub>DC</sub> AT +125 °C; 5 V <sub>DC</sub> AT +175 °C	470	С	738D477X0008C2	82.6	10	1.0	2	14	-64	+17.5	+20	-	
39	820	D	738D827X0008D2	51.5	10	1.0	4	16	-80	+25	+25	-	
47			10 V	<sub>DC</sub> AT +85 °C	C; 6.3 V <sub>DC</sub> A	AT +125 °C;	5 V <sub>DC</sub> A	T +175 °C	2				
150		Α			10		1		-36	+12	+16		
180	47	Α	738D476X0010A2	15.1	10	1.0	1	2	-36	+14	+16	120	
330	150	В	738D157X0010B2	28.2	10	1.0	1	6	-36	+14	+16	-	
390	180	В	738D187X0010B2	45.2	10	1.0	1	7	-36	+14	+16	48	
16	330	С	738D337X0010C2		10	1.0		16	-60	+17.5	+20	=	
16 V <sub>DC</sub> AT +85 °C; 10 V <sub>DC</sub> AT +125 °C; 8 V <sub>DC</sub> AT +175 °C	390	С	738D397X0010C2	73.5	10	1.0	2	16	-64		+20	30	
27 A 738D276X0016A2 10.3 10 1.0 1 2 -28 +10.5 +16 108 33 A 738D336X0016A2 10.3 10 1.0 1 2 -28 +14 +16 108 100 A 738D107X9016A2 25.0 10 1.0 1 10 -44 +13 +16 88 120 B 738D127X0016B2 30.2 10 1.0 1 7 -28 +17.5 +20 60 220 C 738D277X0016C2 34.5 10 1.0 2 16 -50 +17.5 +18 - 270 C 738D277X0016C2 35.8 10 1.0 2 16 -56 +17.5 +20 36 470 D 738D477X0016D2 35.4 10 1.0 6 24 -80 +25 +25 28  25 V <sub>DC</sub> AT +85 °C; 16 V <sub>DC</sub> AT +125 °C; 13 V <sub>DC</sub> AT +175 °C  18 A 738D186X0025A2 6.9 10 1.0 1 2 -20 +10.5 +12 - 22 A 738D226X0025B2 15.0 10 1.0 1 2 -20 +10.5 +12 168 50 B 738D56X0025B2 15.0 10 1.0 1 2 -28 +13 +15 - 100 B 738D187X0025C2 42.2 10 1.0 1 10 -28 +13 +15 60 180 C 738D187X0025C2 42.2 10 1.0 1 10 -28 +13 +15 60 180 C 738D187X0025D2 31.8 10 1.0 7 28 -70 +25 +25 29  390 D 738D37X0025D2 31.8 10 1.0 7 28 -70 +25 +25 29  30 V <sub>DC</sub> AT +85 °C; 19 V <sub>DC</sub> AT +125 °C; 15 V <sub>DC</sub> AT +175 °C  15 A 738D166X0025A2 6.9 10 1.0 1.0 1 10 -28 +13 +15 60 180 C 738D187X0025C2 42.2 10 1.0 2 18 -48 +13 +15 39 330 D 738D337X0025D2 31.8 10 1.0 7 28 -70 +25 +25 29  30 V <sub>DC</sub> AT +85 °C; 19 V <sub>DC</sub> AT +125 °C; 15 V <sub>DC</sub> AT +175 °C  15 A 738D156X0030A2 7.5 10 1.0 7 28 -70 +25 +25 29  30 V <sub>DC</sub> AT +85 °C; 19 V <sub>DC</sub> AT +125 °C; 15 V <sub>DC</sub> AT +175 °C  15 A 738D127X0030C2 24.4 10 1.0 7 28 -70 +25 +25 -25 300 C 738D37X0030C2 37.7 10 1.0 2 18 -48 +13 +15 - 270 D 738D37X0030C2 24.7 10 1.0 8 32 -60 +25 +25 - 300 C 738D37X0030C2 37.7 10 1.0 2 18 -48 +13 +15 - 270 D 738D37X0030C2 27.2 10 1.0 8 32 -60 +25 +25 - 300 C 738D37X0030C2 27.2 10 1.0 8 32 -60 +25 +25 - 300 C 738D37X0030C2 37.7 10 1.0 2 18 -48 +13 +15 - 270 D 738D37X0030C2 24.7 10 1.0 8 32 -60 +25 +25 - 300 C 738D37X0030C2 40.7 10 1.0 1 0 1 9 -28 +13 +15 78 50 C 738D36X0040B2 21.1 10 1.0 1 9 -28 +13 +15 78 50 C 738D16X0040B2 21.1 10 1.0 1 9 -28 +13 +15 78 50 C 738D16X0040B2 21.1 10 1.0 1 9 -28 +13 +15 78 50 C 738D16X0040B2 21.1 10 1.0 1 9 -28 +13 +15 78	680	D								+25	+25	-	
33			16 V		C; 10 V <sub>DC</sub> A	T +125 °C;	8 V <sub>DC</sub> A1	Γ +175 °C	)				
100	27	Α	738D276X0016A2	10.3	10	1.0	1			+10.5	+16	=	
120	33	Α	738D336X0016A2	10.3	10	1.0	1	2	-28	+14	+16	108	
220         C         738D227X0016C2         34.5         10         1.0         2         16         -50         +17.5         +18         -           270         C         738D277X0016C2         50.8         10         1.0         2         16         -56         +17.5         +20         36           470         D         738D477X0016D2         35.4         10         1.0         6         24         -80         +25         +25         -           560         D         738D567X0016D2         42.2         10         1.0         6         24         -80         +25         +25         -           25 V <sub>DC</sub> AT +85° °C; 16 V <sub>DC</sub> AT +125° °C; 13 V <sub>DC</sub> AT +175° °C           18         A         738D186X0025A2         6.9         10         1.0         1         2         -20         +10.5         +12         -           22         A         738D26X0025B2         6.9         10         1.0         1         2         -20         +10.5         +12         -           22         A         738D26X0025B2         15.0         10         1.0         1         10         -28         +13         +15         - <t< td=""><td>100</td><td>Α</td><td>738D107X9016A2</td><td></td><td>10</td><td>1.0</td><td>1</td><td>10</td><td>-44</td><td>+13</td><td>+16</td><td>88</td></t<>	100	Α	738D107X9016A2		10	1.0	1	10	-44	+13	+16	88	
270	120		738D127X0016B2	30.2	10	1.0	1	7	-28	+17.5	+20	60	
470		_	738D227X0016C2	34.5	10	1.0		16	-50	+17.5	+18	-	
560         D         738D567X0016D2         42.2         10         1.0         6         24         -80         +25         +25         28           25 V <sub>DC</sub> AT +85 °C; 16 V <sub>DC</sub> AT +125 °C; 13 V <sub>DC</sub> AT +175 °C           18         A         738D186X0025A2         6.9         10         1.0         1         2         -20         +10.5         +12         -           22         A         738D226X0025A2         6.9         10         1.0         1         2         -20         +10.5         +12         -           50         B         738D560X0025B2         15.0         10         1.0         1         5         -28         +13         +15         -           82         B         738D826X0025B2         20.6         10         1.0         1         10         -28         +13         +15         -           100         B         738D187X0025B2         25.1         10         1.0         1         10         -28         +13         +15         39           330         D         738D187X0025D2         27.2         10         1.0         7         28         -70         +25         +25         -2		_										36	
25 V <sub>DC</sub> AT +85 °C; 16 V <sub>DC</sub> AT +125 °C; 13 V <sub>DC</sub> AT +175 °C  18		_					-						
18 A 738D186X0025A2 6.9 10 1.0 1 2 -20 +10.5 +12 - 22 A 738D26X0025A2 6.9 10 1.0 1 2 -20 +10.5 +12 168 50 B 738D506X0025B2 15.0 10 1.0 1 5 -28 +13 +15 - 82 B 738D826X0025B2 20.6 10 1.0 1 10 -28 +13 +15 - 100 B 738D107X0025B2 25.1 10 1.0 1 10 -28 +13 +15 60 180 C 738D187X0025C2 42.2 10 1.0 2 18 -48 +13 +15 39 330 D 738D337X0025D2 27.2 10 1.0 7 28 -70 +25 +25 - 390 D 738D397X0025D2 31.8 10 1.0 7 28 -70 +25 +25 29	560	D								+25	+25	28	
22         A         738D226X0025A2         6.9         10         1.0         1         2         -20         +10.5         +12         168           50         B         738D506X0025B2         15.0         10         1.0         1         5         -28         +13         +15         -           82         B         738D826X0025B2         20.6         10         1.0         1         10         -28         +13         +15         -           100         B         738D107X0025B2         25.1         10         1.0         1         10         -28         +13         +15         60           180         C         738D187X0025C2         42.2         10         1.0         2         18         -48         +13         +15         39           330         D         738D337X0025D2         27.2         10         1.0         7         28         -70         +25         +25         -29           30V Dc AT +85 °C; 19 VDc AT +125 °C; 15 VDc AT +175 °C           15         A         738D156X0030A2         7.5         10         1.0         1         8         -24         +13         +15         -										10.5	10		
50         B         738D506X0025B2         15.0         10         1.0         1         5         -28         +13         +15         -           82         B         738D826X0025B2         20.6         10         1.0         1         10         -28         +13         +15         -           100         B         738D107X0025B2         25.1         10         1.0         1         10         -28         +13         +15         60           180         C         738D187X0025C2         42.2         10         1.0         2         18         -48         +13         +15         39           330         D         738D337X0025D2         27.2         10         1.0         7         28         -70         +25         +25         -           390         D         738D397X0025D2         31.8         10         1.0         7         28         -70         +25         +25         -29           30V <sub>DC</sub> AT +85 °C; 19 V <sub>DC</sub> AT +125 °C; 15 V <sub>DC</sub> AT +175 °C         ***         ***         ***         12         -         -20         +10.5         +12         -         -         68         B         738D686X003082         25.6 <td></td>													
82 B 738D826X0025B2 20.6 10 1.0 1 10 -28 +13 +15 - 100 B 738D107X0025B2 25.1 10 1.0 1 10 -28 +13 +15 60 180 C 738D187X0025C2 42.2 10 1.0 2 18 -48 +13 +15 39 330 D 738D337X0025D2 27.2 10 1.0 7 28 -70 +25 +25 - 390 D 738D397X0025D2 31.8 10 1.0 7 28 -70 +25 +25 29   **SOURCE AT +85 °C; 19 VDC AT +125 °C; 15 VDC AT +175 °C  15 A 738D156X0030A2 7.5 10 1.0 1 2 -20 +10.5 +12 - 68 B 738D686X0030B2 25.6 10 1.0 1 8 -24 +13 +15 - 120 C 738D127X0030C2 24.4 10 1.0 1 8 -24 +13 +15 - 150 C 738D157X0030C2 37.7 10 1.0 2 17 -44 +13 +15 - 150 C 738D277X0030C2 27.2 10 1.0 8 32 -60 +25 +25 - 300 C 738D307X0030C2 40.7 10 1.0 8 32 -60 +25 +25 - 300 C 738D307X0030C2 40.7 10 1.0 1 2 -24 +8 +10 234 56 B 738D566X0040B2 21.1 10 1.0 1 9 -28 +13 +15 78 100 C 738D107X0040C2 15.7 10 1.0 1 9 -28 +13 +15 78 100 C 738D107X0040C2 15.7 10 1.0 1 9 -28 +13 +15 78													
100 B 738D107X0025B2 25.1 10 1.0 1 10 -28 +13 +15 60 180 C 738D187X0025C2 42.2 10 1.0 2 18 -48 +13 +15 39 330 D 738D337X0025D2 27.2 10 1.0 7 28 -70 +25 +25 29  390 D 738D397X0025D2 31.8 10 1.0 7 28 -70 +25 +25 29  30 V <sub>DC</sub> AT +85 °C; 19 V <sub>DC</sub> AT +125 °C; 15 V <sub>DC</sub> AT +175 °C  15 A 738D156X0030A2 7.5 10 1.0 1 2 -20 +10.5 +12 - 68 B 738D686X0030B2 25.6 10 1.0 1.0 1 8 -24 +13 +15 - 120 C 738D127X0030C2 24.4 10 1.0 2 17 -44 +13 +15 - 150 C 738D157X0030C2 37.7 10 1.0 2 18 -48 +13 +15 - 270 D 738D277X0030C2 27.2 10 1.0 8 32 -60 +25 +25 - 300 C 738D307X0030C2 40.7 10 1.0 8 32 -60 +25 +25 -  40 V <sub>DC</sub> AT +85 °C; 25 V <sub>DC</sub> AT +125 °C; 20 V <sub>DC</sub> AT +175 °C  12 A 738D16X0040A2 6.7 10 1.0 1 2 -24 +8 +10 234 56 B 738D66X0040B2 21.1 10 1.0 1 9 -28 +13 +15 78 100 C 738D107X0040C2 15.7 10 1.0 2 17 -40 +13 +15 78												-	
180         C         738D187X0025C2         42.2         10         1.0         2         18         -48         +13         +15         39           330         D         738D337X0025D2         27.2         10         1.0         7         28         -70         +25         +25         -           390         D         738D397X0025D2         31.8         10         1.0         7         28         -70         +25         +25         29           30 V <sub>DC</sub> AT +85° C; 19 V <sub>DC</sub> AT +125° C; 15 V <sub>DC</sub> AT +175° C           30 V <sub>DC</sub> AT +85° C; 19 V <sub>DC</sub> AT +125° C; 15 V <sub>DC</sub> AT +175° C           15         A         738D156X0030A2         7.5         10         1.0         1         2         -20         +10.5         +12         -           68         B         738D66X0030B2         25.6         10         1.0         1         8         -24         +13         +15         -           120         C         738D127X0030C2         24.4         10         1.0         2         18         -48         +13         +15         -           270         D         738D277X0030D2         27.2         10         1.0         8												-	
330 D 738D337X0025D2 27.2 10 1.0 7 28 -70 +25 +25 -9 390 D 738D397X0025D2 31.8 10 1.0 7 28 -70 +25 +25 29													
390 D 738D397X0025D2 31.8 10 1.0 7 28 -70 +25 +25 29  30 V <sub>DC</sub> AT +85 °C; 19 V <sub>DC</sub> AT +125 °C; 15 V <sub>DC</sub> AT +175 °C  15 A 738D156X0030A2 7.5 10 1.0 1 2 -20 +10.5 +12 - 68 B 738D686X0030B2 25.6 10 1.0 1.0 1 8 -24 +13 +15 - 120 C 738D127X0030C2 24.4 10 1.0 2 17 -44 +13 +15 - 150 C 738D157X0030C2 37.7 10 1.0 2 18 -48 +13 +15 - 270 D 738D277X0030D2 27.2 10 1.0 8 32 -60 +25 +25 - 300 C 738D307X0030C2 40.7 10 1.0 8 32 -60 +25 +25 - 300 C 738D307X0030C2 40.7 10 1.0 8 32 -60 +20 +25 -  40 V <sub>DC</sub> AT +85 °C; 25 V <sub>DC</sub> AT +125 °C; 20 V <sub>DC</sub> AT +175 °C  12 A 738D126X0040A2 6.7 10 1.0 1 2 -24 +8 +10 234 56 B 738D566X0040B2 21.1 10 1.0 1 9 -28 +13 +15 78 100 C 738D107X0040C2 15.7 10 1.0 2 17 -40 +13 +15 48													
30 V <sub>DC</sub> AT +85 °C; 19 V <sub>DC</sub> AT +125 °C; 15 V <sub>DC</sub> AT +175 °C         15       A 738D156X0030A2       7.5       10       1.0       1       2       -20       +10.5       +12       -         68       B 738D686X0030B2       25.6       10       1.0       1       8       -24       +13       +15       -         120       C 738D127X0030C2       24.4       10       1.0       2       17       -44       +13       +15       -         150       C 738D157X0030C2       37.7       10       1.0       2       18       -48       +13       +15       -         270       D 738D277X0030D2       27.2       10       1.0       8       32       -60       +25       +25       -         300       C 738D307X0030C2       40.7       10       1.0       8       32       -60       +25       +25       -         40 V <sub>DC</sub> AT +85 °C; 25 V <sub>DC</sub> AT +125 °C; 20 V <sub>DC</sub> AT +175 °C       C       -       -24       +8       +10       234         56       B 738D566X0040B2       21.1       10       1.0       1       9       -28       +13       +15       78         100       C 738D107X0040C2       15.7													
15       A       738D156X0030A2       7.5       10       1.0       1       2       -20       +10.5       +12       -         68       B       738D686X0030B2       25.6       10       1.0       1       8       -24       +13       +15       -         120       C       738D127X0030C2       24.4       10       1.0       2       17       -44       +13       +15       -         150       C       738D157X0030C2       37.7       10       1.0       2       18       -48       +13       +15       -         270       D       738D277X0030D2       27.2       10       1.0       8       32       -60       +25       +25       -         300       C       738D307X0030C2       40.7       10       1.0       8       32       -60       +20       +25       -         40 V <sub>DC</sub> AT +85 °C; 25 V <sub>DC</sub> AT +125 °C; 20 V <sub>DC</sub> AT +175 °C         12       A       738D126X0040A2       6.7       10       1.0       1       2       -24       +8       +10       234         56       B       738D107X0040C2       15.7       10       1.0       2       17 <td< td=""><td>390</td><td>D</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>+23</td><td>+23</td><td>29</td></td<>	390	D								+23	+23	29	
68         B         738D686X0030B2         25.6         10         1.0         1         8         -24         +13         +15         -           120         C         738D127X0030C2         24.4         10         1.0         2         17         -44         +13         +15         -           150         C         738D157X0030C2         37.7         10         1.0         2         18         -48         +13         +15         -           270         D         738D277X0030D2         27.2         10         1.0         8         32         -60         +25         +25         -           300         C         738D307X0030C2         40.7         10         1.0         8         32         -60         +20         +25         -           40 V <sub>DC</sub> AT +85 °C; 25 V <sub>DC</sub> AT +125 °C; 20 V <sub>DC</sub> AT +175 °C           12         A         738D126X0040A2         6.7         10         1.0         1         2         -24         +8         +10         234           56         B         738D566X0040B2         21.1         10         1.0         1         9         -28         +13         +15         78	15	Δ								±10.5	±12		
120       C       738D127X0030C2       24.4       10       1.0       2       17       -44       +13       +15       -         150       C       738D157X0030C2       37.7       10       1.0       2       18       -48       +13       +15       -         270       D       738D277X0030D2       27.2       10       1.0       8       32       -60       +25       +25       -         300       C       738D307X0030C2       40.7       10       1.0       8       32       -60       +20       +25       -         40 V <sub>DC</sub> AT +85 °C; 25 V <sub>DC</sub> AT +125 °C; 20 V <sub>DC</sub> AT +175 °C         12       A       738D126X0040A2       6.7       10       1.0       1       2       -24       +8       +10       234         56       B       738D566X0040B2       21.1       10       1.0       1       9       -28       +13       +15       78         100       C       738D107X0040C2       15.7       10       1.0       2       17       -40       +13       +15       48												_	
150       C       738D157X0030C2       37.7       10       1.0       2       18       -48       +13       +15       -         270       D       738D277X0030D2       27.2       10       1.0       8       32       -60       +25       +25       -         300       C       738D307X0030C2       40.7       10       1.0       8       32       -60       +20       +25       -         40 V <sub>DC</sub> AT +85 °C; 25 V <sub>DC</sub> AT +125 °C; 20 V <sub>DC</sub> AT +175 °C         12       A       738D126X0040A2       6.7       10       1.0       1       2       -24       +8       +10       234         56       B       738D566X0040B2       21.1       10       1.0       1       9       -28       +13       +15       78         100       C       738D107X0040C2       15.7       10       1.0       2       17       -40       +13       +15       48												-	
270       D       738D277X0030D2       27.2       10       1.0       8       32       -60       +25       +25       -         300       C       738D307X0030C2       40.7       10       1.0       8       32       -60       +20       +25       -         40 V <sub>DC</sub> AT +85 °C; 25 V <sub>DC</sub> AT +125 °C; 20 V <sub>DC</sub> AT +175 °C         12       A       738D126X0040A2       6.7       10       1.0       1       2       -24       +8       +10       234         56       B       738D566X0040B2       21.1       10       1.0       1       9       -28       +13       +15       78         100       C       738D107X0040C2       15.7       10       1.0       2       17       -40       +13       +15       48												-	
300 C 738D307X0030C2 40.7 10 1.0 8 32 -60 +20 +25 -  40 V <sub>DC</sub> AT +85 °C; 25 V <sub>DC</sub> AT +125 °C; 20 V <sub>DC</sub> AT +175 °C  12 A 738D126X0040A2 6.7 10 1.0 1 2 -24 +8 +10 234  56 B 738D566X0040B2 21.1 10 1.0 1 9 -28 +13 +15 78  100 C 738D107X0040C2 15.7 10 1.0 2 17 -40 +13 +15 48												_	
40 V <sub>DC</sub> AT +85 °C; 25 V <sub>DC</sub> AT +125 °C; 20 V <sub>DC</sub> AT +175 °C       12     A 738D126X0040A2 6.7 10 1.0 1 2 -24 +8 +10 234       56     B 738D566X0040B2 21.1 10 1.0 1 9 -28 +13 +15 78       100     C 738D107X0040C2 15.7 10 1.0 2 17 -40 +13 +15 48												-	
12     A     738D126X0040A2     6.7     10     1.0     1     2     -24     +8     +10     234       56     B     738D566X0040B2     21.1     10     1.0     1     9     -28     +13     +15     78       100     C     738D107X0040C2     15.7     10     1.0     2     17     -40     +13     +15     48		-											
56 B 738D566X0040B2 21.1 10 1.0 1 9 -28 +13 +15 78 100 C 738D107X0040C2 15.7 10 1.0 2 17 -40 +13 +15 48	12	Α								+8	+10	234	
100 C 738D107X0040C2 15.7 10 1.0 2 17 -40 +13 +15 48					10		1						
		D		25.0		1.0		32		+25	+25	31	



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CAPACITANCE (µF)	CASE CODE	PART NUMBER	MAX. DF AT +20 °C		MAX. IMP. AT +20°C 100 kHz	(μ <i>A</i>	(. DCL A) AT	СН	ANGE (	•	MAX. IMPEDANCE (1) AT -55 °C
(P )	-		(%)	(Ω)	(Ω)	+20 °C	+85 °C +125 °C	-55 °C	+85 °C	+125 °C	100 Hz (Ω)
		50 V <sub>E</sub>	<sub>OC</sub> AT +85 °C	C; 32 V <sub>DC</sub> A	T +125 °C; 2	25 V <sub>DC</sub> A	T +175 °(	С			
10	Α	738D106X0050A2	5.7	10	1.0	1	2	-24	+8	+9	-
47	В	738D476X0050B2	17.7	10	1.0	1	9	-28	+12	+15	-
82	С	738D826X0050C2	20.6	10	1.0	2	16	-32	+12	+15	-
180	D	738D187X0050D2	23.7	10	1.0	8	32	-50	+25	+25	-
		63 V <sub>I</sub>	<sub>OC</sub> AT +85 °C	C; 40 V <sub>DC</sub> A	T +125 °C; 3	32 V <sub>DC</sub> A	T +175 °	С			
8.2	Α	738D825X0063A2	4.1	10	1.0	1	2	-24	+8	+9	330
27	Α	738D276X9063A2	8.0	10	1.0	2	15	-24	+10	+12	180
39	В	738D396X0063B2	17.2	10	1.0	1	9	-28	+10.5	+12	108
68	С	738D686X0063C2	25.6	10	1.0	2	16	-32	+10.5	+12	60
150	D	738D157X0063D2	23.6	10	1.0	8	32	-40	+20	+20	34
		75 V <sub>I</sub>	oc AT +85 °C	C; 50 V <sub>DC</sub> A	T +125 °C; 3	88 V <sub>DC</sub> A	T +175 °(	С			
5.6	Α	738D565X0075A2	3.4	10	1.0	1	2	-20	+8	+9	-
6.8	Α	738D685X0075A2	3.4	10	1.0	1	2	-20	+8	+9	-
27	В	738D276X0075B2	11.8	10	1.0	1	9	-22	+11	+13	-
33	В	738D336X0075B2	14.5	10	1.0	1	10	-24	+15	+15	_
56	С	738D566X0075C2	21.8	10	1.0	2	17	-28	+15	+15	_
100	D	738D107X0075D2	19.5	10	1.0	9	36	-35	+20	+20	_
120	D	738D127X0075D2	23.3	10	1.0	9	36	-35	+20	+20	_
				C; 63 V <sub>DC</sub> A					0		
3.9	Α	738D395X0100A2	2.0	30	3.0	1	2	-16	+7	+8	_
4.7	Α	738D475X0100A2	2.9	30	3.0	1	2	-16	+7	+8	600
18	В	738D186X0100B2	7.8	15	1.5	1	8	-16	+7	+8	-
22	В	738D226X0100B2	9.7	15	1.5	1	9	-16	+7	+8	132
33	С	738D336X0100C2	9.3	15	1.0	2	15	-16	+7	+8	-
39	C	738D396X0100C2	9.5 14.7	15	1.0	2	17	-20	+7	+8	_
47	С	738D476X0100C2	17.7	15	1.0	2	17	-20	+7 +7	+8	84
	D					9					
68		738D686X0100D2	13.7	15	1.5		36	-25	+15	+15	-
82	D	738D826X0100D2	16.4	15	1.5	9	36	-25	+15	+15	40
2.2	^			C; 80 V <sub>DC</sub> A					. 7	. 0	
3.3	A	738D335X0125A2	3.4	30	3.0	1	2	-10	+7	+8	- 700
3.9	A	738D395X0125A2	3.4	30	3.0	1	2	-16	+7	+8	720
10	В	738D106X0125B2	9.4	15	1.5	1	5	-16	+7	+8	-
12	В	738D126X0125B2	8.3	15	1.5	1	6	-16	+7	+8	-
15	В	738D156X0125B2	11.2	15	1.5	1	7	-16	+7	+8	200
18	С	738D186X0125C2	10	15	1.0	2	9	-16	+7	+8	-
22	С	738D226X0125C2	12.1	15	1.0	2	11	-16	+7	+8	-
27	С	738D276X0125C2	16.7	15	1.0	2	13	-16	+7	+8	106
39	D	738D396X0125D2	7.5	15	1.5	10	40	-25	+15	+15	-
47	D	738D476X0125D2	9.2	15	1.5	10	40	-25	+15	+15	-
56	D	738D566X0125D2	14.2	15	1.5	10	40	-25	+15	+15	58

<sup>(1)</sup> Data only applies to the former CT9 ratings



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