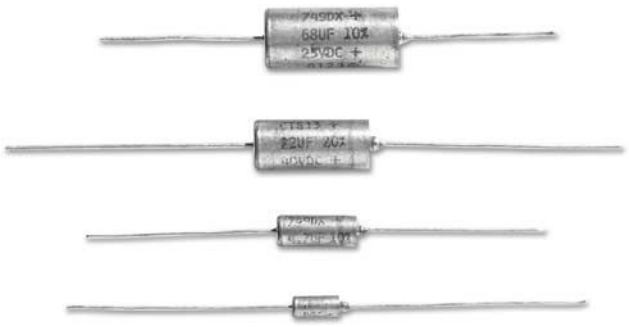
Solid-Electrolyte TANTALEX® Capacitors, Hermetically Sealed, Axial-Lead, CECC Approved



FEATURES

- Terminations: Tin/lead (SnPb), 100 % tin (RoHS compliant)
- Hermetically sealed metal case with plastic film insulation
- Extended capacitance range (type 749DX)
- High operational stability with both time and temperature
- Low leakage current
- Low dissipation factor
- Compliant to RoHS Directive 2011/65/EU

Pb Available

RoHS* COMPLIANT

Note

* Pb containing terminations are not RoHS compliant, exemptions may apply

APPLICATIONS

Performance and reliability has been proven in a wide range of applications such as: filtering, by-pass, coupling, energy storage, timing circuits.

PERFORMANCE CHARACTERISTICS

Operating Temperature:

- 55 °C to + 85 °C (types CTS13)
- 55 °C to + 125 °C (types CTS1, 749DX)

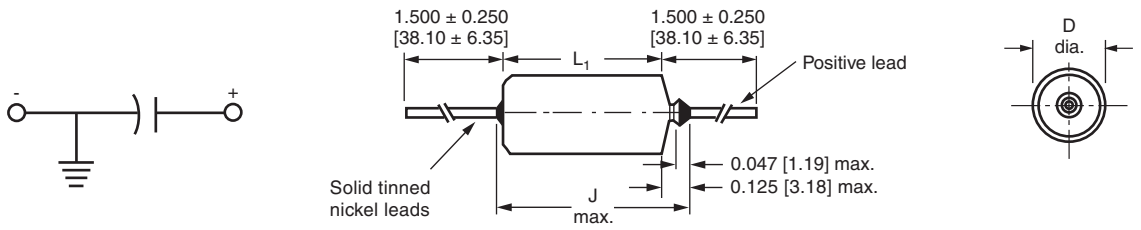
SPECIFICATIONS

CECC		BS	
30201-001		749DX 9073-N001	749DX
30201-002	CTS1		
30201-005	CTS13		
30201-029	749DX		

ORDERING INFORMATION

CTS13	105	X0	040	A	2	P	E3
TYPE	CAPACITANCE	CAPACITANCE TOLERANCE	DC VOLTAGE RATING AT + 85 °C	CASE CODE	STYLE NUMBER	PACKAGING	RoHS COMPLIANT
Identifies the basic capacitor design CTS1 = CECC 30201-002 CTS13 = CECC 30201-005 749DX = CECC 30201-001/ CECC 30201-029	Expressed in picofarads. First two digits are significant. Third digit is the number of zeros following.	X0 = ± 20 % X9 = ± 10 % X5 = ± 5 % * * Special order	Expressed in volts. Where necessary, zeros precede the voltage rating to complete the 3 digit block 6R3 = 6.3 V	See Ratings and Case Codes table.	0 = Bare Case 2 = Plastic-film insulation	See Tape and Reel Packaging	E3 = 100 % tin termination (RoHS compliant) Blank = SnPb termination

DIMENSIONS in inches [millimeters]



CASE CODE	L_1 ± 0.031 [0.79]	J max.	D max.	LEAD DIAMETER + 10 %, - 0.05
A	0.286 [7.26]	0.402 [10.2]	0.141 [3.6]	0.020 [0.5]
B	0.474 [12.04]	0.590 [15.0]	0.192 [4.9]	0.020 [0.5]
C	0.686 [17.42]	0.807 [20.5]	0.295 [7.5]	0.025 [0.6]
D	0.786 [19.96]	0.945 [24.0]	0.364 [9.1]	0.025 [0.6]

RATINGS AND CASE CODES - TYPE CTS1

C_R (µF)	RATED VOLTAGE U_R (+ 85 °C)						
	6.3 V	10 V	16 V	25 V	40 V	50 V	63 V
	CATEGORY VOLTAGE U_C (+ 125 °C)						
	4 V	6.3 V	10 V	13 V	25 V	33 V	40 V
0.10							**A**
0.12							A
0.15							**A**
0.18							A
0.22							**A**
0.27						A	A
0.33						**A**	**A**
0.39						A	A
0.47					**A**	**A**	**A**
0.56					A	A	A
0.68					**A**	**A**	**A**
0.82					A	A	B
1.0					**A**	**A**	**B**
1.2					A	B	B
1.5				**A**	**B**	**B**	**B**
1.8			A		B	B	B
2.2			**A**		**B**	**B**	**B**
2.7			A		B	B	B
3.3			**A**		**B**	**B**	**B**
3.9		A			B	B	B
4.7		**A**			**B**	**B**	**C**
5.6	A				B	C	C
6.8	**A**				**B**	**C**	**C**
8.2				B	C	C	C
10				**B**	**C**	**C**	**C**
12			B		C	C	D
15			**B**		**C**	**C**	**D**
18			B		C	C	D
22			**B**		**C**	**D**	
27		B		C	D		
33		**B**		**C**	**D**		
39	B		C		D		
47	**B**		**C**		**D**		
56	B		C	D			
68			**C**	**D**			
82		C	D				
100		**C**	**D**				
120	C		D				
150	**C**		**D**				
180		D					
220		**D**					
270	D						
330	**D**						

Note

- Preferred ratings are in bold characters.
  Non-preferred ratings are available only with a capacitance tolerance of ± 10 % or ± 5 % (special order).

RATINGS AND CASE CODES - TYPE CTS13								
C_R (µF)	RATED VOLTAGE U_R (+ 85 °C)							
	6.3 V	10 V	16 V	20 V	25 V	40 V	50 V	63 V
0.10								**A**
0.12								A
0.15								**A**
0.18								A
0.22								**A**
0.27							A	A
0.33							**A**	**A**
0.39							A	A
0.47						**A**	**A**	**A**
0.56						A	A	A
0.68						**A**	**A**	**A**
0.82						A	A	B
1.0						**A**	**A**	**B**
1.2					A	A	B	B
1.5					**A**	**B**	**B**	**B**
1.8				A		B	B	B
2.2				**A**		**B**	**B**	**B**
2.7			A			B	B	B
3.3			**A**			**B**	**B**	**B**
3.9		A				B	B	B
4.7		**A**				**B**	**B**	**C**
5.6	A					B	C	C
6.8	**A**					**B**	**C**	**C**
8.2					B	C	C	C
10					**B**	**C**	**C**	**C**
12				B		C	C	D
15				**B**		**C**	**C**	**D**
18			B			C	C	D
22			**B**			**C**	**D**	
27		B			C	D		
33		**B**			**C**	**D**		
39	B			C		D		
47	**B**			**C**		**D**		
56	B		C		D			
68			**C**		**D**			
82		C		D				
100		**C**		**D**				
120	C		D					
150	**C**		**D**					
180		D						
220		**D**						
270	D							
330	**D**							

Note

- Preferred ratings are in bold characters.
  Non-preferred ratings are available only with a capacitance tolerance of ± 10 % or ± 5 % (special order).

RATINGS AND CASE CODES - TYPE 749DX

C_R (µF)	RATED VOLTAGE U_R (+ 85 °C)								
	6.3 V	10 V	16 V	20 V	25 V	35 V	40 V	50 V	63 V
	CATEGORY VOLTAGE U_C (+ 125 °C)								
	4 V	6.3 V	10 V	13 V	16 V	23 V	25 V	33 V	40 V
0.068									
0.10						**A**	**A**		**A**
0.12						A	A		A
0.15						**A**	**A**		**A**
0.18						A	A		A
0.22						**A**	**A**		**A**
0.27						A	A		A
0.33						**A**	**A**		**A**
0.39						A	A		A
0.47						**A**	**A**		**A**
0.56						A	A		A
0.68						**A**	**A**		**A**
0.82						A	A	A	B
1.0						**A**	**A**	**A**	**B**
1.2					A	B	B	B	B
1.5					**A**	**B**	**B**	**B**	**B**
1.8				A		B	B	B	B
2.2				**A**		**B**	**B**	**B**	**B**
2.7			A			B	B	B	B
3.3			**A**			**B**	**B**	**B**	**B**
3.9		A				B	B	B	B
4.7		**A**				**B**	**B**	**B**	**C**
5.6	A					B	B	C	C
6.8	**A**					**B**	**B**	**C**	**C**
8.2					B	C	C	C	C
10					**B**	**C**	**C**	**C**	**C**
12				B		C	C	C	D
15				**B**		**C**	**C**	**C**	**D**
18			B			C	C	C	D
22			**B**			**C**	**C**	**D**	
27		B			C	D	D		
33		**B**			**C**	**D**	**D**		
39		B		C		D	D		
47	**B**			**C**		**D**			
56	B		C		D	D			
68			**C**		**D**				
82		C		D					
100		**C**		**D**					
120		C	D						
150	**C**		**D**						
180	C	D							
220		**D**							
270	D								
330	**D**								

Note

- Preferred ratings are in bold characters.
  Non-preferred ratings are available only with a capacitance tolerance of ± 10 % or ± 5 % (special order).

STANDARD RATINGS/EXTENDED RATINGS - CTS1					
CAPACITANCE (µF)	CASE CODE	PART NUMBER	MAX. DC LEAKAGE AT + 25 °C (µA)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. IMPEDANCE AT + 25 °C 100 kHz (Ω)
6.3 V_{DC} AT + 85 °C; 4 V_{DC} AT 125 °C					
5.6	A	CTS1565(1)6R3A(2)(3)	1.0	6	10
6.8	A	CTS1685(1)6R3A(2)(3)	1.0	6	10
39	B	CTS1396(1)6R3B(2)(3)	2.3	6	5
47	B	CTS1476(1)6R3B(2)(3)	2.8	6	5
56	B	CTS1566(1)6R3B(2)(3)	3.4	6	5
120	C	CTS1127(1)6R3C(2)(3)	7.2	6	2
150	C	CTS1157(1)6R3C(2)(3)	9.0	6	2
270	D	CTS1277(1)6R3D(2)(3)	16.2	6	1
330	D	CTS1337(1)6R3D(2)(3)	19.8	8	1
10 V_{DC} AT + 85 °C; 6.3 V_{DC} AT 125 °C					
3.9	A	CTS1395(1)010A(2)(3)	1.0	6	10
4.7	A	CTS1475(1)010A(2)(3)	1.0	6	10
27	B	CTS1276(1)010B(2)(3)	2.7	6	5
33	B	CTS1336(1)010B(2)(3)	3.3	6	5
82	C	CTS1826(1)010C(2)(3)	8.2	6	2
100	C	CTS1107(1)010C(2)(3)	10.0	6	2
180	D	CTS1187(1)010D(2)(3)	18.0	6	1
220	D	CTS1227(1)010D(2)(3)	22.0	8	1
16 V_{DC} AT + 85 °C; 10 V_{DC} AT + 125 °C					
1.8	A	CTS1185(1)016A(2)(3)	1.0	6	10
2.2	A	CTS1225(1)016A(2)(3)	1.0	6	10
2.7	A	CTS1275(1)016A(2)(3)	1.0	6	10
3.3	A	CTS1335(1)016A(2)(3)	1.0	6	10
12	B	CTS1126(1)016B(2)(3)	1.9	6	5
15	B	CTS1156(1)016B(2)(3)	2.4	6	5
18	B	CTS1186(1)016B(2)(3)	2.9	6	5
22	B	CTS1226(1)016B(2)(3)	3.5	6	5
39	C	CTS1396(1)016C(2)(3)	6.2	6	2
47	C	CTS1476(1)016C(2)(3)	7.5	6	2
56	C	CTS1566(1)016C(2)(3)	9.0	6	2
68	C	CTS1686(1)016C(2)(3)	10.9	6	2
82	D	CTS1826(1)016D(2)(3)	13.1	6	1
100	D	CTS1107(1)016D(2)(3)	16.0	6	1
120	D	CTS1127(1)016D(2)(3)	19.2	8	1
150	D	CTS1157(1)016D(2)(3)	24.0	8	1
25 V_{DC} AT + 85 °C; 16 V_{DC} AT + 125 °C					
1.5	A	CTS1155(1)025A(2)(3)	1.0	6	10
8.2	B	CTS1825(1)025B(2)(3)	2.1	6	5
10	B	CTS1106(1)025B(2)(3)	2.5	6	5
27	C	CTS1276(1)025C(2)(3)	6.8	6	2
33	C	CTS1336(1)025C(2)(3)	8.3	6	2
56	D	CTS1566(1)025D(2)(3)	14.0	6	1
68	D	CTS1686(1)025D(2)(3)	17.0	6	1

Note

- Part number definitions:
  (1) Capacitance tolerance code: X5, X9, X0
  (2) Style number: 0 or 2
  (3) Packaging code

STANDARD RATINGS/EXTENDED RATINGS - CTS1

CAPACITANCE (µF)	CASE CODE	PART NUMBER	MAX. DC LEAKAGE AT + 25 °C (µA)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. IMPEDANCE AT + 25 °C 100 kHz (Ω)
40 V_{DC} AT + 85 °C; 25 V_{DC} AT + 125 °C					
0.47	A	CTS1474(1)040A(2)(3)	1.0	6	10
0.56	A	CTS1564(1)040A(2)(3)	1.0	6	10
0.68	A	CTS1684(1)040A(2)(3)	1.0	6	10
0.82	A	CTS1824(1)040A(2)(3)	1.0	6	10
1.0	A	CTS1105(1)040A(2)(3)	1.0	6	10
1.2	A	CTS1125(1)040A(2)(3)	1.0	6	10
1.5	B	CTS1155(1)040B(2)(3)	1.0	6	5
1.8	B	CTS1185(1)040B(2)(3)	1.0	6	5
2.2	B	CTS1225(1)040B(2)(3)	1.0	6	5
2.7	B	CTS1275(1)040B(2)(3)	1.1	6	5
3.3	B	CTS1335(1)040B(2)(3)	1.3	6	5
3.9	B	CTS1395(1)040B(2)(3)	1.6	6	5
4.7	B	CTS1475(1)040B(2)(3)	1.9	6	5
5.6	B	CTS1565(1)040B(2)(3)	2.2	6	5
6.8	B	CTS1685(1)040B(2)(3)	2.7	6	5
8.2	C	CTS1825(1)040C(2)(3)	3.3	6	2
10	C	CTS1106(1)040C(2)(3)	4.0	6	2
12	C	CTS1126(1)040C(2)(3)	4.8	6	2
15	C	CTS1156(1)040C(2)(3)	6.0	6	2
18	C	CTS1186(1)040C(2)(3)	7.2	6	2
22	C	CTS1226(1)040C(2)(3)	8.8	6	2
27	D	CTS1276(1)040D(2)(3)	10.8	6	1
33	D	CTS1336(1)040D(2)(3)	13.2	6	1
39	D	CTS1396(1)040D(2)(3)	15.6	6	1
47	D	CTS1476(1)040D(2)(3)	18.8	6	1
50 V_{DC} AT + 85 °C; 33 V_{DC} AT + 125 °C					
0.27	A	CTS1274(1)050A(2)(3)	1.0	6	10
0.33	A	CTS1334(1)050A(2)(3)	1.0	6	10
0.39	A	CTS1394(1)050A(2)(3)	1.0	6	10
0.47	A	CTS1474(1)050A(2)(3)	1.0	6	10
0.56	A	CTS1564(1)050A(2)(3)	1.0	6	10
0.68	A	CTS1684(1)050A(2)(3)	1.0	6	10
0.82	A	CTS1824(1)050A(2)(3)	1.0	6	10
1.0	A	CTS1105(1)050A(2)(3)	1.0	6	10
1.2	B	CTS1125(1)050B(2)(3)	1.0	6	5
1.5	B	CTS1155(1)050B(2)(3)	1.0	6	5
1.8	B	CTS1185(1)050B(2)(3)	1.0	6	5
2.2	B	CTS1225(1)050B(2)(3)	1.1	6	5
2.7	B	CTS1275(1)050B(2)(3)	1.4	6	5
3.3	B	CTS1335(1)050B(2)(3)	1.7	6	5
3.9	B	CTS1395(1)050B(2)(3)	2.0	6	5

Note

- Part number definitions:
  (1) Capacitance tolerance code: X5, X9, X0
  (2) Style number: 0 or 2
  (3) Packaging code

STANDARD RATINGS/EXTENDED RATINGS - CTS1					
CAPACITANCE (µF)	CASE CODE	PART NUMBER	MAX. DC LEAKAGE AT + 25 °C (µA)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. IMPEDANCE AT + 25 °C 100 kHz (Ω)
50 V_{DC} AT + 85 °C; 33 V_{DC} AT + 125 °C					
4.7	B	CTS1475(1)050B(2)(3)	2.4	6	5
5.6	C	CTS1565(1)050C(2)(3)	2.8	6	2
6.8	C	CTS1685(1)050C(2)(3)	3.4	6	2
8.2	C	CTS1825(1)050C(2)(3)	4.1	6	2
10	C	CTS1106(1)050C(2)(3)	5.0	6	2
12	C	CTS1126(1)050C(2)(3)	6.0	6	2
15	C	CTS1156(1)050C(2)(3)	7.5	6	2
18	C	CTS1186(1)050C(2)(3)	9.0	6	2
22	D	CTS1226(1)050D(2)(3)	11.0	6	1
63 V_{DC} AT + 85 °C; 40 V_{DC} AT + 125 °C					
0.10	A	CTS1104(1)063A(2)(3)	1.0	6	10
0.12	A	CTS1124(1)063A(2)(3)	1.0	6	10
0.15	A	CTS1154(1)063A(2)(3)	1.0	6	10
0.18	A	CTS1184(1)063A(2)(3)	1.0	6	10
0.22	A	CTS1224(1)063A(2)(3)	1.0	6	10
0.27	A	CTS1274(1)063A(2)(3)	1.0	6	10
0.33	A	CTS1334(1)063A(2)(3)	1.0	6	10
0.39	A	CTS1394(1)063A(2)(3)	1.0	6	10
0.47	A	CTS1474(1)063A(2)(3)	1.0	6	10
0.56	A	CTS1564(1)063A(2)(3)	1.0	6	10
0.68	A	CTS1684(1)063A(2)(3)	1.0	6	10
0.82	B	CTS1824(1)063B(2)(3)	1.0	6	5
1.0	B	CTS1105(1)063B(2)(3)	1.0	6	5
1.2	B	CTS1125(1)063B(2)(3)	1.0	6	5
1.5	B	CTS1155(1)063B(2)(3)	1.0	6	5
1.8	B	CTS1185(1)063B(2)(3)	1.1	6	5
2.2	B	CTS1225(1)063B(2)(3)	1.4	6	5
2.7	B	CTS1275(1)063B(2)(3)	1.7	6	5
3.3	B	CTS1335(1)063B(2)(3)	2.1	6	5
3.9	B	CTS1395(1)063B(2)(3)	2.5	6	5
4.7	C	CTS1475(1)063C(2)(3)	3.0	6	2
5.6	C	CTS1565(1)063C(2)(3)	3.5	6	2
6.8	C	CTS1685(1)063C(2)(3)	4.3	6	2
8.2	C	CTS1825(1)063C(2)(3)	5.2	6	2
10	C	CTS1106(1)063C(2)(3)	6.3	6	2
12	D	CTS1126(1)063D(2)(3)	7.6	6	1
15	D	CTS1156(1)063D(2)(3)	9.5	6	1
18	D	CTS1186(1)063D(2)(3)	11.3	6	1

Note

- Part number definitions:
  (1) Capacitance tolerance code: X5, X9, X0
  (2) Style number: 0 or 2
  (3) Packaging code

STANDARD RATINGS/EXTENDED RATINGS - CTS13					
CAPACITANCE (µF)	CASE CODE	PART NUMBER	MAX. DC LEAKAGE AT + 25 °C (µA)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. IMPEDANCE AT + 25 °C 100 kHz (Ω)
6.3 V_{DC} AT + 85 °C					
5.6	A	CTS13565(1)6R3A(2)(3)	1.0	6	10
6.8	A	CTS13685(1)6R3A(2)(3)	1.0	6	10
39	B	CTS13396(1)6R3B(2)(3)	2.3	6	5
47	B	CTS13476(1)6R3B(2)(3)	2.8	6	5
56	B	CTS13566(1)6R3B(2)(3)	3.4	6	5
120	C	CTS13127(1)6R3C(2)(3)	7.2	6	2
150	C	CTS13157(1)6R3C(2)(3)	9.0	6	2
270	D	CTS13277(1)6R3D(2)(3)	16.2	6	1
330	D	CTS13337(1)6R3D(2)(3)	19.8	8	1
10 V_{DC} AT + 85 °C					
3.9	A	CTS13395(1)010A(2)(3)	1.0	6	10
4.7	A	CTS13475(1)010A(2)(3)	1.0	6	10
27	B	CTS13276(1)010B(2)(3)	2.7	6	5
33	B	CTS13336(1)010B(2)(3)	3.3	6	5
82	C	CTS13826(1)010C(2)(3)	8.2	6	2
100	C	CTS13107(1)010C(2)(3)	10.0	6	2
180	D	CTS13187(1)010D(2)(3)	18.0	6	1
220	D	CTS13227(1)010D(2)(3)	22.0	8	1
16 V_{DC} AT + 85 °C					
2.7	A	CTS13275(1)016A(2)(3)	1.0	6	10
3.3	A	CTS13335(1)016A(2)(3)	1.0	6	10
18	B	CTS13186(1)016B(2)(3)	2.9	6	5
22	B	CTS13226(1)016B(2)(3)	3.5	6	5
56	C	CTS13566(1)016C(2)(3)	9.0	6	2
68	C	CTS13686(1)016C(2)(3)	10.9	6	2
120	D	CTS13127(1)016D(2)(3)	19.2	8	1
150	D	CTS13157(1)016D(2)(3)	24.0	8	1
20 V_{DC} AT + 85 °C					
1.8	A	CTS13185(1)020A(2)(3)	1.0	6	10
2.2	A	CTS13225(1)020A(2)(3)	1.0	6	10
12	B	CTS13126(1)020B(2)(3)	2.4	6	5
15	B	CTS13156(1)020B(2)(3)	3.0	6	5
39	C	CTS13396(1)020C(2)(3)	7.8	6	2
47	C	CTS13476(1)020C(2)(3)	9.4	6	2
82	D	CTS13826(1)020D(2)(3)	16.4	6	1
100	D	CTS13107(1)020D(2)(3)	20.0	8	1
25 V_{DC} AT + 85 °C					
1.2	A	CTS13125(1)025A(2)(3)	1.0	6	10
1.5	A	CTS13155(1)025A(2)(3)	1.0	6	10
8.2	B	CTS13825(1)025B(2)(3)	2.1	6	5
10	B	CTS13106(1)025B(2)(3)	2.5	6	5
27	C	CTS13276(1)025C(2)(3)	6.8	6	2
33	C	CTS13336(1)025C(2)(3)	8.3	6	2
56	D	CTS13566(1)025D(2)(3)	14.0	6	1
68	D	CTS13686(1)025D(2)(3)	17.0	6	1

Note

- Part number definitions:
  (1) Capacitance tolerance code: X5, X9, X0
  (2) Style number: 0 or 2
  (3) Packaging code

STANDARD RATINGS/EXTENDED RATINGS - CTS13

CAPACITANCE (µF)	CASE CODE	PART NUMBER	MAX. DC LEAKAGE AT + 25 °C (µA)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. IMPEDANCE AT + 25 °C 100 kHz (Ω)
40 V_{DC} AT + 85 °C					
0.47	A	CTS13474(1)040A(2)(3)	1.0	6	10
0.56	A	CTS13564(1)040A(2)(3)	1.0	6	10
0.68	A	CTS13684(1)040A(2)(3)	1.0	6	10
0.82	A	CTS13824(1)040A(2)(3)	1.0	6	10
1.0	A	CTS13105(1)040A(2)(3)	1.0	6	10
1.2	A	CTS13125(1)040A(2)(3)	1.0	6	10
1.5	B	CTS13155(1)040B(2)(3)	1.0	6	5
1.8	B	CTS13185(1)040B(2)(3)	1.0	6	5
2.2	B	CTS13225(1)040B(2)(3)	1.0	6	5
2.7	B	CTS13275(1)040B(2)(3)	1.1	6	5
3.3	B	CTS13335(1)040B(2)(3)	1.3	6	5
3.9	B	CTS13395(1)040B(2)(3)	1.6	6	5
4.7	B	CTS13475(1)040B(2)(3)	1.9	6	5
5.6	B	CTS13565(1)040B(2)(3)	2.2	6	5
6.8	B	CTS13685(1)040B(2)(3)	2.7	6	5
8.2	C	CTS13825(1)040C(2)(3)	3.3	6	2
10	C	CTS13106(1)040C(2)(3)	4.0	6	2
12	C	CTS13126(1)040C(2)(3)	4.8	6	2
15	C	CTS13156(1)040C(2)(3)	6.0	6	2
18	C	CTS13186(1)040C(2)(3)	7.2	6	2
22	C	CTS13226(1)040C(2)(3)	8.8	6	2
27	D	CTS13276(1)040D(2)(3)	10.8	6	1
33	D	CTS13336(1)040D(2)(3)	13.2	6	1
39	D	CTS13396(1)040D(2)(3)	15.6	6	1
47	D	CTS13476(1)040D(2)(3)	18.8	6	1
50 V_{DC} AT + 85 °C					
0.27	A	CTS13274(1)050A(2)(3)	1.0	6	10
0.33	A	CTS13334(1)050A(2)(3)	1.0	6	10
0.39	A	CTS13394(1)050A(2)(3)	1.0	6	10
0.47	A	CTS13474(1)050A(2)(3)	1.0	6	10
0.56	A	CTS13564(1)050A(2)(3)	1.0	6	10
0.68	A	CTS13684(1)050A(2)(3)	1.0	6	10
0.82	A	CTS13824(1)050A(2)(3)	1.0	6	10
1.0	A	CTS13105(1)050A(2)(3)	1.0	6	10
1.2	B	CTS13125(1)050B(2)(3)	1.0	6	5
1.5	B	CTS13155(1)050B(2)(3)	1.0	6	5
1.8	B	CTS13185(1)050B(2)(3)	1.0	6	5
2.2	B	CTS13225(1)050B(2)(3)	1.1	6	5
2.7	B	CTS13275(1)050B(2)(3)	1.4	6	5
3.3	B	CTS13335(1)050B(2)(3)	1.7	6	5
3.9	B	CTS13395(1)050B(2)(3)	2.0	6	5

Note

- Part number definitions:
  (1) Capacitance tolerance code: X5, X9, X0
  (2) Style number: 0 or 2
  (3) Packaging code

STANDARD RATINGS/EXTENDED RATINGS - CTS13					
CAPACITANCE (µF)	CASE CODE	PART NUMBER	MAX. DC LEAKAGE AT + 25 °C (µA)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. IMPEDANCE AT + 25 °C 100 kHz (Ω)
		50 V_{DC} AT + 85 °C			
4.7	B	CTS13475(1)050B(2)(3)	2.4	6	5
5.6	C	CTS13565(1)050C(2)(3)	2.8	6	2
6.8	C	CTS13685(1)050C(2)(3)	3.4	6	2
8.2	C	CTS13825(1)050C(2)(3)	4.1	6	2
10	C	CTS13106(1)050C(2)(3)	5.0	6	2
12	C	CTS13126(1)050C(2)(3)	6.0	6	2
15	C	CTS13156(1)050C(2)(3)	7.5	6	2
18	C	CTS13186(1)050C(2)(3)	9.0	6	2
22	D	CTS13226(1)050D(2)(3)	11.0	6	1
		63 V_{DC} AT + 85 °C			
0.10	A	CTS13104(1)063A(2)(3)	1.0	6	10
0.12	A	CTS13124(1)063A(2)(3)	1.0	6	10
0.15	A	CTS13154(1)063A(2)(3)	1.0	6	10
0.18	A	CTS13184(1)063A(2)(3)	1.0	6	10
0.22	A	CTS13224(1)063A(2)(3)	1.0	6	10
0.27	A	CTS13274(1)063A(2)(3)	1.0	6	10
0.33	A	CTS13334(1)063A(2)(3)	1.0	6	10
0.39	A	CTS13394(1)063A(2)(3)	1.0	6	10
0.47	A	CTS13474(1)063A(2)(3)	1.0	6	10
0.56	A	CTS13564(1)063A(2)(3)	1.0	6	10
0.68	A	CTS13684(1)063A(2)(3)	1.0	6	10
0.82	B	CTS13824(1)063B(2)(3)	1.0	6	5
1.0	B	CTS13105(1)063B(2)(3)	1.0	6	5
1.2	B	CTS13125(1)063B(2)(3)	1.0	6	5
1.5	B	CTS13155(1)063B(2)(3)	1.0	6	5
1.8	B	CTS13185(1)063B(2)(3)	1.1	6	5
2.2	B	CTS13225(1)063B(2)(3)	1.4	6	5
2.7	B	CTS13275(1)063B(2)(3)	1.7	6	5
3.3	B	CTS13335(1)063B(2)(3)	2.1	6	5
3.9	B	CTS13395(1)063B(2)(3)	2.5	6	5
4.7	C	CTS13475(1)063C(2)(3)	3.0	6	2
5.6	C	CTS13565(1)063C(2)(3)	3.5	6	2
6.8	C	CTS13685(1)063C(2)(3)	4.3	6	2
8.2	C	CTS13825(1)063C(2)(3)	5.2	6	2
10	C	CTS13106(1)063C(2)(3)	6.3	6	2
12	D	CTS13126(1)063D(2)(3)	7.6	6	1
15	D	CTS13156(1)063D(2)(3)	9.5	6	1
18	D	CTS13186(1)063D(2)(3)	11.3	6	1

Note

- Part number definitions:
  (1) Capacitance tolerance code: X5, X9, X0
  (2) Style number: 0 or 2
  (3) Packaging code

STANDARD RATINGS/EXTENDED RATINGS - 749DX					
CAPACITANCE (µF)	CASE CODE	PART NUMBER	MAX. DC LEAKAGE AT + 25 °C (µA)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. IMPEDANCE AT + 25 °C 100 kHz (Ω)
6.3 V_{DC} AT + 85 °C; 4 V_{DC} AT 125 °C					
5.6	A	749DX565(1)6R3A(2)(3)	1.0	6	10
6.8	A	749DX685(1)6R3A(2)(3)	1.0	6	10
47	B	749DX476(1)6R3B(2)(3)	2.8	6	5
56	B	749DX566(1)6R3B(2)(3)	3.4	6	5
150	C	749DX157(1)6R3C(2)(3)	9.0	8	2
180	C	749DX187(1)6R3C(2)(3)	10.8	8	2
270	D	749DX277(1)6R3D(2)(3)	16.2	8	1
330	D	749DX337(1)6R3D(2)(3)	19.8	8	1
10 V_{DC} AT + 85 °C; 6.3 V_{DC} AT 125 °C					
3.9	A	749DX395(1)010A(2)(3)	1.0	6	10
4.7	A	749DX475(1)010A(2)(3)	1.0	6	10
27	B	749DX276(1)010B(2)(3)	2.7	6	5
33	B	749DX336(1)010B(2)(3)	3.3	6	5
39	B	749DX396(1)010B(2)(3)	3.9	6	5
82	C	749DX826(1)010C(2)(3)	8.2	6	2
100	C	749DX107(1)010C(2)(3)	10.0	6	2
120	C	749DX127(1)010C(2)(3)	12.0	8	2
180	D	749DX187(1)010D(2)(3)	18.0	8	1
220	D	749DX227(1)010D(2)(3)	22.0	8	1
16 V_{DC} AT + 85 °C; 10 V_{DC} AT + 125 °C					
2.7	A	749DX275(1)016A(2)(3)	1.0	6	10
3.3	A	749DX335(1)016A(2)(3)	1.0	6	10
18	B	749DX186(1)016B(2)(3)	2.9	6	5
22	B	749DX226(1)016B(2)(3)	3.5	6	5
56	C	749DX566(1)016C(2)(3)	9.0	6	2
68	C	749DX686(1)016C(2)(3)	10.9	6	2
120	D	749DX127(1)016D(2)(3)	19.2	8	1
150	D	749DX157(1)016D(2)(3)	24.0	8	1
20 V_{DC} AT + 85 °C; 13 V_{DC} AT + 125 °C					
1.8	A	749DX185(1)020A(2)(3)	1.0	6	10
2.2	A	749DX225(1)020A(2)(3)	1.0	6	10
12	B	749DX126(1)020B(2)(3)	2.4	6	5
15	B	749DX156(1)020B(2)(3)	3.0	6	5
39	C	749DX396(1)020C(2)(3)	7.8	6	2
47	C	749DX476(1)020C(2)(3)	9.4	6	2
82	D	749DX826(1)020D(2)(3)	16.4	6	1
100	D	749DX107(1)020D(2)(3)	20.0	6	1
25 V_{DC} AT + 85 °C; 16 V_{DC} AT + 125 °C					
1.2	A	749DX125(1)025A(2)(3)	1.0	6	10
1.5	A	749DX155(1)025A(2)(3)	1.0	6	10
8.2	B	749DX825(1)025B(2)(3)	2.1	6	5

Note

- Part number definitions:
  (1) Capacitance tolerance code: X5, X9, X0
  (2) Style number: 0 or 2
  (3) Packaging code

STANDARD RATINGS/EXTENDED RATINGS - 749DX					
CAPACITANCE (µF)	CASE CODE	PART NUMBER	MAX. DC LEAKAGE AT + 25 °C (µA)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. IMPEDANCE AT + 25 °C 100 kHz (Ω)
25 V_{DC} AT + 85 °C; 16 V_{DC} AT + 125 °C					
10	B	749DX106(1)025B(2)(3)	2.5	6	5
27	C	749DX276(1)025C(2)(3)	6.8	6	2
33	C	749DX336(1)025C(2)(3)	8.3	6	2
56	D	749DX566(1)025D(2)(3)	14.0	6	1
68	D	749DX686(1)025D(2)(3)	17.0	6	1
35 V_{DC} AT + 85 °C; 23 V_{DC} AT + 125 °C					
0.10	A	749DX104(1)035A(2)(3)	1.0	6	10
0.12	A	749DX124(1)035A(2)(3)	1.0	6	10
0.15	A	749DX154(1)035A(2)(3)	1.0	6	10
0.18	A	749DX184(1)035A(2)(3)	1.0	6	10
0.22	A	749DX224(1)035A(2)(3)	1.0	6	10
0.27	A	749DX274(1)035A(2)(3)	1.0	6	10
0.33	A	749DX334(1)035A(2)(3)	1.0	6	10
0.39	A	749DX394(1)035A(2)(3)	1.0	6	10
0.47	A	749DX474(1)035A(2)(3)	1.0	6	10
0.56	A	749DX564(1)035A(2)(3)	1.0	6	10
0.68	A	749DX684(1)035A(2)(3)	1.0	6	10
0.82	A	749DX824(1)035A(2)(3)	1.0	6	10
1.0	A	749DX105(1)035A(2)(3)	1.0	6	10
1.2	B	749DX125(1)035B(2)(3)	1.0	6	5
1.5	B	749DX155(1)035B(2)(3)	1.0	6	5
1.8	B	749DX185(1)035B(2)(3)	1.0	6	5
2.2	B	749DX225(1)035B(2)(3)	1.0	6	5
2.7	B	749DX275(1)035B(2)(3)	1.0	6	5
3.3	B	749DX335(1)035B(2)(3)	1.2	6	5
3.9	B	749DX395(1)035B(2)(3)	1.4	6	5
4.7	B	749DX475(1)035B(2)(3)	1.6	6	5
5.6	B	749DX565(1)035B(2)(3)	2.0	6	5
6.8	B	749DX685(1)035B(2)(3)	2.4	6	5
8.2	C	749DX825(1)035C(2)(3)	2.9	6	2
10	C	749DX106(1)035C(2)(3)	3.5	6	2
12	C	749DX126(1)035C(2)(3)	4.2	6	2
15	C	749DX156(1)035C(2)(3)	5.3	6	2
18	C	749DX186(1)035C(2)(3)	6.3	6	2
22	C	749DX226(1)035C(2)(3)	7.7	6	2
27	D	749DX276(1)035D(2)(3)	9.5	6	1
33	D	749DX336(1)035D(2)(3)	11.6	6	1
39	D	749DX396(1)035D(2)(3)	13.7	6	1
47	D	749DX476(1)035D(2)(3)	16.5	6	1
56	D	749DX566(1)035D(2)(3)	19.6	6	1

Note

- Part number definitions:
  (1) Capacitance tolerance code: X5, X9, X0
  (2) Style number: 0 or 2
  (3) Packaging code

STANDARD RATINGS/EXTENDED RATINGS - 749DX					
CAPACITANCE (µF)	CASE CODE	PART NUMBER	MAX. DC LEAKAGE AT + 25 °C (µA)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. IMPEDANCE AT + 25 °C 100 kHz (Ω)
40 V_{DC} AT + 85 °C; 25 V_{DC} AT + 125 °C					
0.10	A	749DX104(1)040A(2)(3)	1.0	6	10
0.12	A	749DX124(1)040A(2)(3)	1.0	6	10
0.15	A	749DX154(1)040A(2)(3)	1.0	6	10
0.18	A	749DX184(1)040A(2)(3)	1.0	6	10
0.22	A	749DX224(1)040A(2)(3)	1.0	6	10
0.27	A	749DX274(1)040A(2)(3)	1.0	6	10
0.33	A	749DX334(1)040A(2)(3)	1.0	6	10
0.39	A	749DX394(1)040A(2)(3)	1.0	6	10
0.47	A	749DX474(1)040A(2)(3)	1.0	6	10
0.56	A	749DX564(1)040A(2)(3)	1.0	6	10
0.68	A	749DX684(1)040A(2)(3)	1.0	6	10
0.82	A	749DX824(1)040A(2)(3)	1.0	6	10
1.0	A	749DX105(1)040A(2)(3)	1.0	6	10
1.2	B	749DX125(1)040B(2)(3)	1.0	6	5
1.5	B	749DX155(1)040B(2)(3)	1.0	6	5
1.8	B	749DX185(1)040B(2)(3)	1.0	6	5
2.2	B	749DX225(1)040B(2)(3)	1.0	6	5
2.7	B	749DX275(1)040B(2)(3)	1.1	6	5
3.3	B	749DX335(1)040B(2)(3)	1.3	6	5
3.9	B	749DX395(1)040B(2)(3)	1.6	6	5
4.7	B	749DX475(1)040B(2)(3)	1.9	6	5
5.6	B	749DX565(1)040B(2)(3)	2.2	6	5
6.8	B	749DX685(1)040B(2)(3)	2.7	6	5
8.2	C	749DX825(1)040C(2)(3)	3.3	6	2
10	C	749DX106(1)040C(2)(3)	4.0	6	2
12	C	749DX126(1)040C(2)(3)	4.8	6	2
15	C	749DX156(1)040C(2)(3)	6.0	6	2
18	C	749DX186(1)040C(2)(3)	7.2	6	2
22	C	749DX226(1)040C(2)(3)	8.8	6	2
27	D	749DX276(1)040D(2)(3)	10.8	6	1
33	D	749DX336(1)040D(2)(3)	13.2	6	1
39	D	749DX396(1)040D(2)(3)	15.6	6	1
50 V_{DC} AT + 85 °C; 33 V_{DC} AT + 125 °C					
0.82	A	749DX824(1)050A(2)(3)	1.0	6	10
1.0	A	749DX105(1)050A(2)(3)	1.0	6	10
1.2	B	749DX125(1)050B(2)(3)	1.0	6	5
1.5	B	749DX155(1)050B(2)(3)	1.0	6	5
1.8	B	749DX185(1)050B(2)(3)	1.0	6	5
2.2	B	749DX225(1)050B(2)(3)	1.1	6	5
2.7	B	749DX275(1)050B(2)(3)	1.4	6	5
3.3	B	749DX335(1)050B(2)(3)	1.7	6	5

Note

- Part number definitions:
  (1) Capacitance tolerance code: X5, X9, X0
  (2) Style number: 0 or 2
  (3) Packaging code

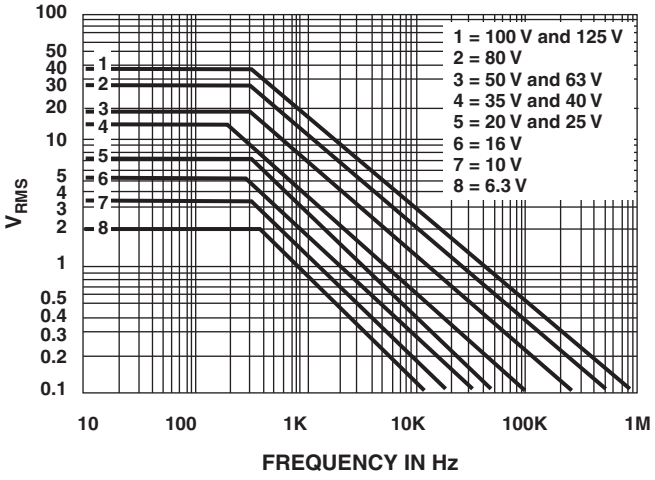
STANDARD RATINGS/EXTENDED RATINGS - 749DX					
CAPACITANCE (µF)	CASE CODE	PART NUMBER	MAX. DC LEAKAGE AT + 25 °C (µA)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. IMPEDANCE AT + 25 °C 100 kHz (Ω)
50 V_{DC} AT + 85 °C; 33 V_{DC} AT + 125 °C					
3.9	B	749DX395(1)050B(2)(3)	2.0	6	5
4.7	B	749DX475(1)050B(2)(3)	2.4	6	5
5.6	C	749DX565(1)050C(2)(3)	2.8	6	2
6.8	C	749DX685(1)050C(2)(3)	3.4	6	2
8.2	C	749DX825(1)050C(2)(3)	4.1	6	2
10	C	749DX106(1)050C(2)(3)	5.0	6	2
12	C	749DX126(1)050C(2)(3)	6.0	6	2
15	C	749DX156(1)050C(2)(3)	7.5	6	2
18	C	749DX186(1)050C(2)(3)	9.0	6	2
22	D	749DX226(1)050D(2)(3)	11.0	6	1
63 V_{DC} AT + 85 °C; 40 V_{DC} AT + 125 °C					
0.10	A	749DX104(1)063A(2)(3)	1.0	6	10
0.12	A	749DX124(1)063A(2)(3)	1.0	6	10
0.15	A	749DX154(1)063A(2)(3)	1.0	6	10
0.18	A	749DX184(1)063A(2)(3)	1.0	6	10
0.22	A	749DX224(1)063A(2)(3)	1.0	6	10
0.27	A	749DX274(1)063A(2)(3)	1.0	6	10
0.33	A	749DX334(1)063A(2)(3)	1.0	6	10
0.39	A	749DX394(1)063A(2)(3)	1.0	6	10
0.47	A	749DX474(1)063A(2)(3)	1.0	6	10
0.56	A	749DX564(1)063A(2)(3)	1.0	6	10
0.68	A	749DX684(1)063A(2)(3)	1.0	6	10
0.82	B	749DX824(1)063B(2)(3)	1.0	6	5
1.0	B	749DX105(1)063B(2)(3)	1.0	6	5
1.2	B	749DX125(1)063B(2)(3)	1.0	6	5
1.5	B	749DX155(1)063B(2)(3)	1.0	6	5
1.8	B	749DX185(1)063B(2)(3)	1.1	6	5
2.2	B	749DX225(1)063B(2)(3)	1.4	6	5
2.7	B	749DX275(1)063B(2)(3)	1.7	6	5
3.3	B	749DX335(1)063B(2)(3)	2.1	6	5
3.9	B	749DX395(1)063B(2)(3)	2.5	6	5
4.7	C	749DX475(1)063C(2)(3)	3.0	6	2
5.6	C	749DX565(1)063C(2)(3)	3.5	6	2
6.8	C	749DX685(1)063C(2)(3)	4.3	6	2
8.2	C	749DX825(1)063C(2)(3)	5.2	6	2
10	C	749DX106(1)063C(2)(3)	6.3	6	2
12	D	749DX126(1)063D(2)(3)	7.6	6	1
15	D	749DX156(1)063D(2)(3)	9.5	6	1
18	D	749DX186(1)063D(2)(3)	11.3	6	1

Note

- Part number definitions:
  (1) Capacitance tolerance code: X5, X9, X0
  (2) Style number: 0 or 2
  (3) Packaging code

TYPICAL CURVES RIPPLE VOLTAGE AT + 25 °C

CASE "A"



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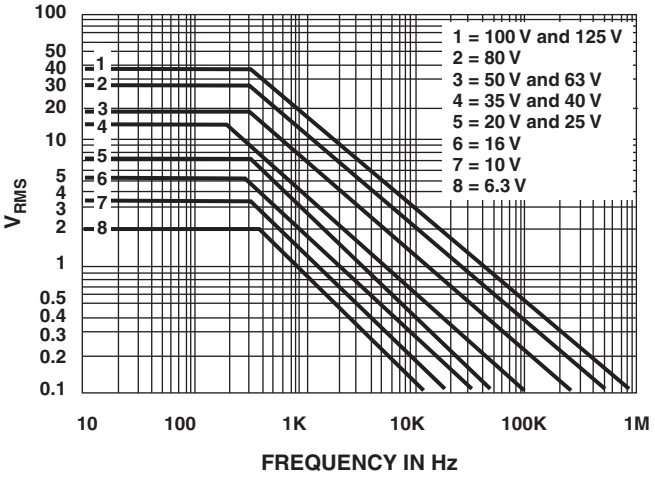
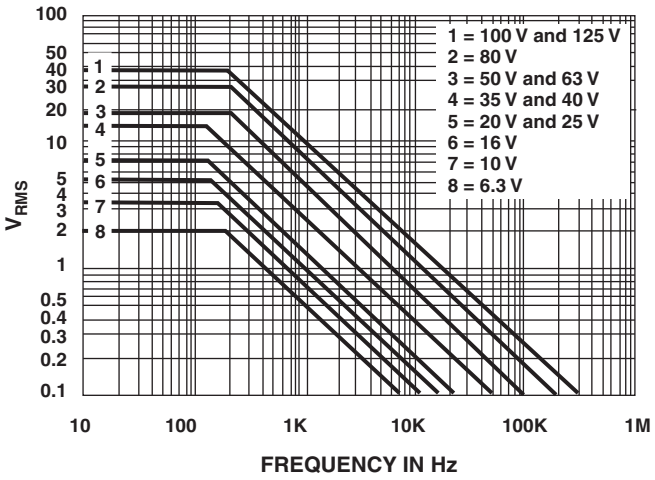
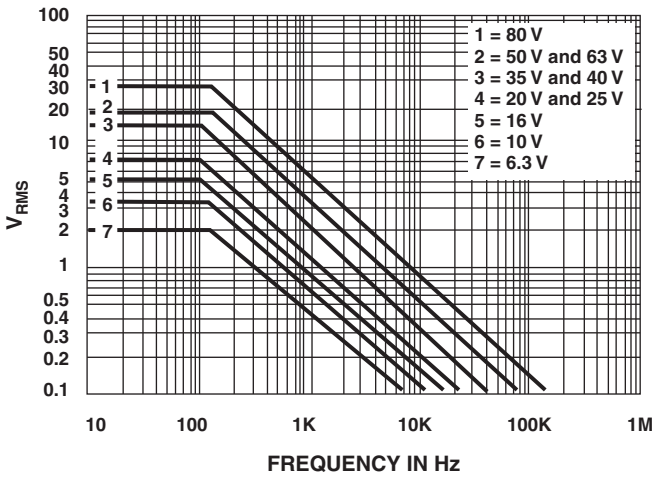


CASE "C"



CASE "D"



PERFORMANCE CHARACTERISTICS

1. Operating temperature:

- 55 °C to + 85 °C with rated DC voltage U_R applied, + 85 °C to + 125 °C with linear voltage derating to category voltage UC (only for types CTS1, 749DX).

2. Capacitance and tolerance:

Capacitance measured at 100 Hz and + 25 °C shall be within the specified tolerance limits of the nominal rating. Capacitance measurement shall be made by means of a polarized capacitance bridge. The polarizing voltage shall be of 2.2 V. The maximum voltage applied during measurements shall be 1.0 V_{RMS} at 100 Hz and + 25 °C.

3. Reverse voltage:

These capacitors are capable of withstanding peak voltage in the reverse direction equal to: 15 % of the rated DC voltage at + 25 °C, 5 % of the rated DC voltage at + 85 °C.

4. Surge voltage:

Table 1

PRODUCT TYPE	SURGE VOLTAGE AT + 85 °C	SURGE VOLTAGE AT + 125 °C
CTS13	1.30 U_R	-
749DX/CTS1	1.30 U_R	1.30 U_C

Capacitors shall withstand the surge voltage applied in series with a 1000 W resistor, at the rate of 1.5 min on, 5.5 min off, for 1000 successive test cycles at + 85 °C or at + 125 °C. After test, dissipation factor and leakage current shall meet the initial requirements at + 25 °C (see below), capacitance change shall not exceed ± 10 % of initial value at + 25 °C.

5. Leakage current:

Rated voltage U_R shall be applied to capacitors during five minutes with a resistor of 1000 W in series with each capacitor, before making DC leakage current measurements. The leakage current shall not exceed the following limits:

Table 2

TEMPERATURE	CTS1/CTS13/749DX
+ 25 °C	0.01 C_R x U_R or 1 µA whichever is greater
+ 85 °C	0.1 C_R x U_R or 10 µA whichever is greater
+ 125 °C	0.125 C_R x U_R or 12.5 µA whichever is greater

6. Dissipation factor:

The dissipation factor, when measured at 100 Hz, shall not exceed the values below:

Table 3

TEMP.	CTS1/CTS13		749DX	
	$C_RU_R \leq 1900$	$C_RU_R > 1900$	$C_R \leq 100$	$C_R > 100$
- 55 °C	9 %	11 %	8 %	10 %
+ 25 °C	6 %	8 %	6 %	8 %
+ 85 °C	9 %	11 %	-	-
+ 125 °C (1)	12 %	14 %	10 %	11 %

Note
(1) Not applicable for CTS13

7. Stability at low and high temperature:

Capacitance change with temperature shall not exceed the limits of the following table, leakage current and dissipation factor shall be within the limits specified in Tables 2 and 3.

Table 4

TEMPERATURE	CTS1/CTS13/749DX
- 55 °C	- 10 %
+ 85 °C	+ 12 %
+ 125 °C (1)	+ 15 %

Note
(1) Not applicable for CTS13

8. Impedance:

The impedance measured at 100 kHz and 25 °C shall not exceed the following values:

Table 5

CASE CODE	Z (W) (1)
A	10
B	5
C	2
D	1

Note
(1) Not applicable for $C_R \leq 0.68$ µF

9. Life test:

After 2000 h at + 85 °C with rated DC voltage applied, or after 2000 h at + 125 °C with category DC voltage applied (for types CTS1, 749DX only) capacitors shall meet the requirements in Table 6.

Table 6

PRODUCT TYPE	CAPACITANCE CHANGE	DISSIPATION FACTOR	DC LEAKAGE CURRENT
CTS1 CTS13 749DX	Within ± 10 % of initial value at + 25 °C	Within initial requirement at + 25 °C	Within 125 % of initial requirements at + 25 °C

PERFORMANCE CHARACTERISTICS (Continued)

10. Humidity test:

After 56 days (1350 h) at + 40 °C, 90 % to 95 % of relative humidity (per IEC 68-2-3) with no voltage applied, capacitors shall meet the requirements in Table 7 below.

Table 7

CAPACITANCE CHANGE	Within ± 3 % of initial value
DC LEAKAGE CURRENT	Within initial requirement at + 25 °C - Table 2
DISSIPATION FACTOR	Within initial requirement at + 25 °C - Table 3

Table 8

CAPACITANCE CHANGE	Within ± 5 % of initial value at + 25 °C
DC LEAKAGE CURRENT	Within initial requirement at + 25 °C - Table 2
DISSIPATION FACTOR	Within initial requirement at + 25 °C - Table 3

Typical values of charge-discharge current (per above test conditions).

RATED VOLTAGE U_R (V)	CHARGE-DISCHARGE CURRENT (A)
6.3	13
10	20
16	32
25	50
40	80
50	100
63	126

11. Insulation test:

For capacitors with insulating sleeves, a DC voltage of 100 V shall be applied for one minute between the case of the capacitor and a metal “V” block in intimate contact with the insulating sleeve. The insulating resistance measured in these conditions shall be at least 100 MΩ.

12. Lead pull test:

Leads shall withstand the following test (IEC 68-2-2): Tensile stress of 5N (cases A and B) or 10N (cases C and D) for 10 s in any direction

One bend in each direction
Two consecutive rotations of 180°

GUIDE TO APPLICATION

1. AC ripple current:

The maximum allowable ripple current shall be determined from the formula:

$$I_{RMS} = \sqrt{\frac{P}{R_{ESR}}}$$

where,

P = Power dissipation in W at + 25 °C as given below

R_{ESR} = The capacitor Equivalent Series Resistance at the specified frequency.

2. AC ripple voltage:

The maximum allowable ripple voltage shall be determined from the formula:

$$V_{RMS} = \sqrt{\frac{P}{R_{ESR}}} \times Z$$

where,

Z = The capacitor impedance at the specified frequency.

The calculations are summarized on the graphs in table “Typical Curves Ripple Voltage at + 25 °C” giving the maximum available ripple voltage as a function of frequency.

However, the sum of the peak AC voltage plus the DC voltage shall not exceed the rated DC voltage at + 85 °C of the capacitor. The sum of the negative peak AC voltage plus the DC voltage shall not allow a voltage reversal exceeding 15 % of the rated DC voltage.

3. AC ripple current or voltage derating factor:

If these capacitors are to be operated at temperatures above + 25 °C, the permissible RMS ripple current or voltage shall be calculated using the derating factors in the table below:

TEMPERATURE	DERATING FACTOR
+ 25 °C	1.0
+ 55 °C	0.8
+ 85 °C	0.6
+ 125 °C	0.4

4. Power dissipation:

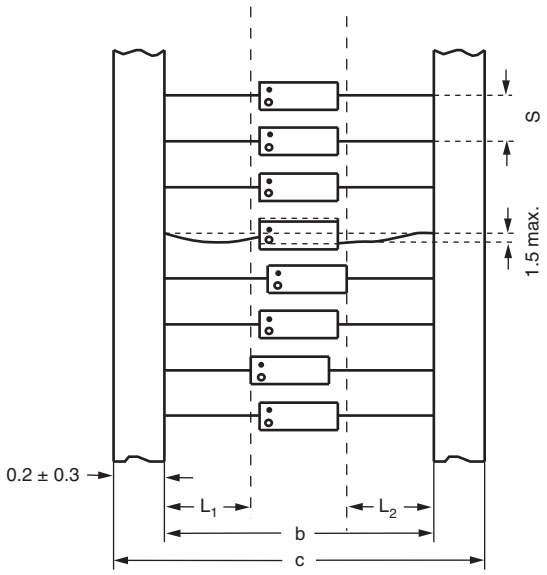
Power dissipation will be affected by the heat sinking capability of the mounting surface. Non-sinusoidial ripple current may produce heating effects which differ from those shown in the following table. It is important that the equivalent I_{RMS} value be established when calculating permissible operating levels.

CASE CODE	POWER DISSIPATION AT + 25 °C (W)
A	0.115
B	0.145
C	0.185
D	0.225

TAPE AND REEL PACKAGING

MEETS IEC 286-1

L_1 - L_2 = 1.5 mm max.
S = Component spacing (cumulative tolerance on 20 units = 4 mm)
b = Tape spacing
c = Overall length



DIMENSIONS in millimeters

CASE SIZE	REEL AND AMMO S	REEL PACK					AMMO PACK			BULK
		OPTION P		OPTION R		QTY PER REEL	OPTION G		QTY PER BOX	QTY PER PACK
		B	C MAX.	B	C MAX.		B	C MAX.		
A	5.0 ± 0.3	63 ± 2	78	53 ± 2	68	1000	53 ± 2	68	500	100
B	5.0 ± 0.3	63 ± 2	78	53 ± 2	68	1000	53 ± 2	68	500	75
C	10.0 ± 0.3	63 ± 2	78	63 ± 2	78	500	53 ± 2	68	250	50
D	10.0 ± 0.3	63 ± 2	78	63 ± 2	78	500	53 ± 2	68	250	25
PACKAGING CODE		P		R			G			B

MARKING

Capacitors shall be marked with Sprague and/or the registered trademark 2 at vendor's option; the type number; rated capacitance and tolerance (with a letter code, if different from ± 20 %, K = ± 10 %; J = ± 5 %) ; rated DC voltage at + 85 °C and the date code of manufacture.

Capacitors shall be marked on one end with a "plus" sign (+) to identify the positive terminal.

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- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
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- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

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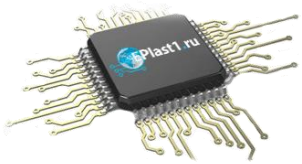
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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