

The KEMET T322 AND T323 (CX01 & CX05) Series offers a complete line of extended range molded solid tantalum capacitors designed specifically for high speed automatic insertion applications. These capacitors offer an extremely high capacitance-to-volume ratio while still maintaining excellent performance characteristics.

Supplied in six axial lead tubular case sizes, these capacitors are ideally suited for use in printed wiring boards and all applications requiring a high degree of packaging density and can be supplied in bulk packaging or lead-taped on reels.

The T322/T323 Series dimensions and tight lead wire-to-body concentricity permit installation by the same automatic insertion equipment used for diodes and resistors. Available in working voltages of

2, 4, 6, 10, 15, 20, 25, 35, and 50 volts. Operating temperature range -55°C to +85°C at full rated voltage and with ²/₃ 85°C rated voltage at 125°C.

The gold color epoxy utilized permits laser marking with outstanding permanency and legibility.

T323 Series capacitors are qualified under MIL-PRF-49137/1 & 5 as Military Style CX01 & CX05.

Typical applications include decoupling, blocking, bypassing and filtering in commercial computers, data processing, communications, and other electronic equipment. The low ESR/impedance at high frequencies offered by this capacitor is especially suitable for decoupling required by high speed computers.

PERFORMANCE CHARACTERISTICS

- **CAPACITANCE/VOLTAGE RANGE:**
0.1-330µF, 2-50 Volts.
- **CAPACITANCE TOLERANCE:** Available in standard EIA nominal values with ±20%, ±10% and ±5% tolerance.
- **DISSIPATION FACTOR:** Maximum DF limits are shown in corresponding series part number listings on pages 44-48. See Application Notes Section, page 76 for additional description.
- **DC LEAKAGE CURRENT:** Each corresponding part number table lists maximum leakage current for each capacitor on pages 44 through 48. See Application Notes Section, page 76 for additional description.
- **RATED VOLTAGE; WORKING VOLTAGE; SURGE VOLTAGE; REVERSE VOLTAGE:** See Application Notes Section, page 76 & 77 for description.
- **AC RIPPLE VOLTAGE:** Permissible AC ripple voltage is related to equivalent series resistance (ESR) and power dissipation capability. Maximum power dissipation for each case size is listed in Table below. For additional description see page 79.

Case Size	Power Dissipation (max.) @ 25°C (watts)
A	.060
B	.070
C	.080
D	.090
E	.100
F	.110

Maximum Power Dissipation Capability @ 25°C

- **IMPEDANCE and ESR:** See Application Notes Section, pages 77 & 78 for description. Reference ESR values are shown in adjoining column, this page.
- **ENVIRONMENTAL CONSIDERATIONS:**
 - A. Shock Test: MIL-STD-202, Method 213.
 - B. Thermal Shock, MIL-STD-202, Method 107.
 - C. Moisture Resistance: MIL-STD-202, Method 106.
 - D. Solderability: MIL-STD-202, Method 208.

T322 ESR (OHMS) at 100 kHz @ +25°C
(The ESR values provided below are for reference only. No warranty, as stated on page 3 and reincorporated here, is made as to the accuracy of these values for any particular T322 Series product.)

Cap. µF	6 Volt	10 Volt	15 Volt	20 Volt	25 Volt	35 Volt	50 Volt
0.10						26.0	26.0
0.12						26.0	26.0
0.15						21.0	21.0
0.18						21.0	21.0
0.22						17.0	17.0
0.27						17.0	17.0
0.33						15.0	15.0
0.39						15.0	15.0
0.47					16.0	13.0	13.0
0.56					14.0	13.0	13.0
0.68					12.0	10.0	10.0
0.82					12.0	10.0	10.0
1.00				10.0	10.0	8.0	8.0
1.20				10.0	10.0	8.0	8.0
1.50			10.0	9.0	8.0	6.0	5.0
1.80			10.0	9.0	8.0	6.0	5.0
2.20		13.0	8.0	7.0	6.0	5.0	3.5
2.70		13.0	8.0	7.0	6.0	5.0	3.5
3.30	13.0	10.0	6.0	5.5	5.0	4.0	3.0
3.90	13.0	10.0	6.0	5.5	5.0	4.0	3.0
4.70	10.0	8.0	5.0	4.5	4.0	3.0	2.5
5.60	10.0	8.0	5.0	4.5	4.0	3.0	2.5
6.80	8.0	6.0	4.0	3.6	3.1	2.5	2.0
8.20	8.0	6.0	4.0	3.6	3.1	2.5	2.0
10.0	6.0	5.0	3.2	2.9	2.5	2.0	1.6
12.0	6.0	5.0	3.2	2.9	2.5	2.0	1.6
15.0	5.0	3.7	2.5	2.3	2.0	1.6	1.2
18.0	5.0	3.7	2.5	2.3	2.0	1.6	1.2
22.0	3.7	2.7	2.0	1.8	1.5	1.3	1.0
27.0	3.7	2.7	2.0	1.8	1.5	1.3	1.0
33.0	3.0	2.1	1.6	1.4	1.2	1.0	
39.0	3.0	2.1	1.6	1.4	1.2	1.0	
47.0	2.0	1.7	1.3	1.2	1.0	0.8	
56.0	2.0	1.7	1.3	1.2	1.0		
68.0	1.8	1.3	1.0	0.9	0.8		
82.0	1.8	1.3	1.0	0.9			
100.0	1.6	1.0	0.8	0.6			
120.0	1.6	1.0	0.8				
150.0	0.9	0.8	0.6				
180.0	0.9	0.8					
220.0	0.9	0.6					
270.0	0.9						
330.0	0.7						

For additional Environmental Test Information see pages 80, 81 and 82.

- **LEAD MATERIAL:** Solder coated steel core with copper ply per MIL-STD-1276.
- **LEAD TAPE and REEL:** Reeling per specification RS-296. See pages 71 and 73 for additional information.

TANTALUM MOLDED / AXIAL — MIL-PRF-49137/1 & 5

T322 & T323 (CX01 & CX05) SERIES



Effective September 30, 2005, the KEMET T322 Series is RoHS compliant.

CAPACITOR OUTLINE DRAWINGS



DIMENSIONS — INCHES & (MILLIMETERS)

CASE SIZE	D (MAX)	L (MAX)	W
A	.095 (2.41)	.260 (6.6)	.020 (.51)
B	.110 (2.79)	.290 (7.37)	.020 (.51)
C	.180 (4.57)	.345 (8.76)	.020 (.51)
D	.180 (4.57)	.420 (10.67)	.020 (.51)
E	.280 (7.11)	.530 (13.46)	.025 (.64)
F	.300 (7.62)	.710 (18.03)	.025 (.64)

T322 & T323 ORDERING INFORMATION

TANTALUM — T

SERIES — 32X
Sub-Miniature, Molded, Polar, Solid Tantalum, Insert appropriate number to replace letter "X" — 322 or 323 (CX01, CX05).

CASE SIZE — A
A, B, C, D, E, or F

CAPACITANCE IN PICOFARADS — 474
First two digits are significant figures. Third digit is number of zeros following.

VOLTAGE RATING — M
M — ±20%
K — ±10%
J — ±5%

LEAD MATERIAL — A
S — Standard
T — 100% Tin

FAILURE RATE LEVEL — S
A — Not Applicable

SPECIFICATION (when necessary) — C*
— Reeling Per EIA Specification RS-296

***Part Number Example: T322A474M035AS (14 digits – no spaces)**

* M & K only tolerances available for T323 Series.

MIL-PRF-49137/5 MILITARY ORDERING INFORMATION

TYPE — CX
Capacitor, Fixed, Solid Tantalum, Molded, Non-hermetically Sealed

STYLE — 05
01, 05 (T323) A, B, C, and D

VOLTAGE — D
D — 225
K — Capacitance Tolerance

Symbol	Rated (85°C) Volts, DC	Surge (85°C) Volts, DC
D	6	8.0
F	10	13.0
H	15	20.0
J	20	26.0
K	25	32.0
M	35	46.0
N	50	65.0

Symbol	Capacitance Tolerance Percent (±)
K	10
M	20

CAPACITANCE TOLERANCE
The nominal capacitance value, expressed in picofarads (pF), is identified by a three-digit number; the first two digits represent significant figures and the last digit specifies the number of zeros to follow.

CAPACITOR MARKING



T322/T323 Tantalum Molded / Axial

RATINGS & PART NUMBER REFERENCE

CAPACITANCE µF	CASE SIZE	CAPACITANCE TOLERANCE ±%	KEMET T322 SERIES			CX01 & CX05 CAPACITORS PER MIL-PRF-49137/1 & 5	
			KEMET PART NUMBER	D. C. LEAKAGE µA@25°C	MAX. DISSIPATION FACTOR %@25°C, 120 HZ	MILITARY PART NUMBER	KEMET PART NUMBER
2 VOLT RATING AT 85°C — 1.3 VOLT RATING AT 125°C							
6.8	A	5,10,20	T322A685(1)002AS	0.5	10		
8.2	A	5,10,20	T322A825(1)002AS	0.5	10		
10.0	A	5,10,20	T322A106(1)002AS	0.5	10		
12.0	B	5,10,20	T322B126(1)002AS	0.5	10		
15.0	B	5,10,20	T322B156(1)002AS	0.5	10		
18.0	B	5,10,20	T322B186(1)002AS	0.5	10		
22.0	B	5,10,20	T322B226(1)002AS	0.5	10		
27.0	B	5,10,20	T322B276(1)002AS	0.5	10		
33.0	B	5,10,20	T322B336(1)002AS	0.5	10		
39.0	C	5,10,20	T322C396(1)002AS	0.6	10		
47.0	C	5,10,20	T322C476(1)002AS	0.8	10		
56.0	C	5,10,20	T322C566(1)002AS	0.9	10		
68.0	C	5,10,20	T322C686(1)002AS	1.1	10		
4 VOLT RATING AT 85°C — 2.7 VOLT RATING AT 125°C							
4.7	A	5,10,20	T322A475(1)004AS	0.5	8		
5.6	A	5,10,20	T322A565(1)004AS	0.5	8		
6.8	A	5,10,20	T322A685(1)004AS	0.5	8		
8.2	B	5,10,20	T322B825(1)004AS	0.5	8		
10.0	B	5,10,20	T322B106(1)004AS	0.5	8		
12.0	B	5,10,20	T322B126(1)004AS	0.5	8		
15.0	B	5,10,20	T322B156(1)004AS	0.5	8		
18.0	B	5,10,20	T322B186(1)004AS	0.6	8		
22.0	B	5,10,20	T322B226(1)004AS	0.7	8		
27.0	C	5,10,20	T322C276(1)004AS	0.9	8		
33.0	C	5,10,20	T322C336(1)004AS	1.1	8		
39.0	C	5,10,20	T322C396(1)004AS	1.2	8		
47.0	C	5,10,20	T322C476(1)004AS	1.5	8		
56.0	D	5,10,20	T322D566(1)004AS	1.8	8		
68.0	D	5,10,20	T322D686(1)004AS	2.2	8		
6 VOLT RATING AT 85°C — 4 VOLT RATING AT 125°C							
3.3	A	5,10,20	T322A335(1)006AS	0.5	4		
3.9	A	5,10,20	T322A395(1)006AS	0.5	4		
4.7	A	5	T322A475J006AS	0.5	4		
4.7	A	10	T322A475K006AS	0.5	4	CX05D475K	T323A475K006AS
4.7	A	20	T322A475M006AS	0.5	4	CX05D475M	T323A475M006AS
5.6	B	5	T322B565J006AS	0.5	4		
5.6	B	10	T322B565K006AS	0.5	4	CX01D565K	T323B565K 006AS
5.6	B	20	T322B565M006AS	0.5	4	CX01D565M	T323B565M006AS
6.8	B	5	T322B685J006AS	0.5	6		
6.8	B	10	T322B685K006AS	0.5	6	CX01D685K	T323B685K006AS
6.8	B	20	T322B685M006AS	0.5	6	CX01D685M	T323B685M006AS
8.2	B	5	T322B825J006AS	0.5	6		
8.2	B	10	T322B825K006AS	0.5	6	CX01D825K	T323B825K 006AS
8.2	B	20	T322B825M006AS	0.5	6	CX01D825M	T323B825M006AS
10.0	B	5	T322B106J006AS	0.5	6		
10.0	B	10	T322B106K006AS	0.5	6	CX01D106K	T323B106K006AS
10.0	B	20	T322B106M006AS	0.5	6	CX01D106M	T323B106M006AS
12.0	B	5	T322B126J006AS	0.6	6		
12.0	B	10	T322B126K006AS	0.6	6	CX01D126K	T323B126K 006AS
12.0	B	20	T322B126M006AS	0.6	6	CX01D126M	T323B126M006AS
15.0	B	5	T322B156J006AS	0.7	6		
15.0	B	10	T322B156K006AS	0.7	6	CX05D156K	T323B156K006AS
15.0	B	20	T322B156M006AS	0.7	6	CX05D156M	T323B156M006AS
18.0	C	5,10,20	T322C186(1)006AS	0.9	6		
22.0	C	5,10,20	T322C226(1)006AS	1.1	6		
27.0	C	5,10,20	T322C276(1)006AS	1.3	6		
33.0	C	5	T322C336J006AS	1.5	6		
33.0	C	10	T322C336K006AS	1.5	6	CX05D336K	T323C336K006AS
33.0	C	20	T322C336M006AS	1.5	6	CX05D336M	T323C336M006AS
39.0	D	5,10,20	T322D396(1)006AS	1.9	6		
47.0	D	5	T322D476J006AS	2.3	6		
47.0	D	10	T322D476K006AS	2.3	6	CX05D476K	T323D476K006AS
47.0	D	20	T322D476M006AS	2.3	6	CX05D476M	T323D476M006AS
56.0	D	5,10,20	T322D566(1)006AS	2.7	6		
68.0	D	5,10,20	T322D686(1)006AS	3.3	6		

(1) To complete KEMET Part Number, insert Capacitance Tolerance Symbol as follows: M — ±20%, K — ±10%, J — ±5%
Bold Face lines indicate preferred part types and values.

RATINGS & PART NUMBER REFERENCE

CAPACITANCE µF	CASE SIZE	CAPACITANCE TOLERANCE ±%	KEMET T322 SERIES			CX01 & CX05 CAPACITORS PER MIL-PRF-49137/1 & 5	
			KEMET PART NUMBER	D.C. LEAKAGE µA@25°C	MAX. DISSIPATION FACTOR %@25°C, 120 HZ	MILITARY PART NUMBER	KEMET PART NUMBER
6 VOLT RATING AT 85°C — 4 VOLT RATING AT 125°C (Cont'd)							
82.0	E	5,10,20	T322E826(1)006AS	3.9	8		
100.0	E	5,10,20	T322E107(1)006AS	4.8	8		
120.0	E	5,10,20	T322E127(1)006AS	5.0	8		
150.0	E	5,10,20	T322E157(1)006AS	5.0	8		
180.0	E	5,10,20	T322E187(1)006AS	8.6	8		
220.0	E	5,10,20	T322E227(1)006AS	10.0	8		
270.0	F	5,10,20	T322F277(1)006AS	10.0	8		
330.0	F	5,10,20	T322F337(1)006AS	10.0	8		
10 VOLT RATING AT 85°C — 7 VOLT RATING AT 125°C							
2.2	A	5,10,20	T322A225(1)010AS	0.5	4		
2.7	A	5,10,20	T322A275(1)010AS	0.5	4		
3.3	A	5	T322A335J010AS	0.5	4		
3.3	A	10	T322A335K010AS	0.5	4	CX05F335K	T323A335K010AS
3.3	A	20	T322A335M010AS	0.5	4	CX05F335M	T323A335M010AS
3.9	B	5,10,20	T322B395(1)010AS	0.5	4		
4.7	B	5,10,20	T322B475(1)010AS	0.5	4		
5.6	B	5,10,20	T322B565(1)010AS	0.5	4		
6.8	B	5,10,20	T322B685(1)010AS	0.5	6		
8.2	B	5,10,20	T322B825(1)010AS	0.7	6		
10.0	B	5	T322B106J010AS	0.8	6		
10.0	B	10	T322B106K010AS	0.8	6	CX05F106K	T323B106K010AS
10.0	B	20	T322B106M010AS	0.8	6	CX05F106M	T323B106M010AS
12.0	C	5,10,20	T322C126(1)010AS	1.0	6		
15.0	C	5,10,20	T322C156(1)010AS	1.2	6		
18.0	C	5,10,20	T322C186(1)010AS	1.4	6		
22.0	C	5	T322C226J010AS	1.5	6		
22.0	C	10	T322C226K010AS	1.5	6	CX05F226K	T323C226K010AS
22.0	C	20	T322C226M010AS	1.5	6	CX05F226M	T323C226M010AS
27.0	D	5	T322D276J010AS	2.2	6		
27.0	D	10	T322D276K010AS	2.2	6	CX05F276K	T323D276K010AS
27.0	D	20	T322D276M010AS	2.2	6	CX05F276M	T323D276M010AS
33.0	D	5	T322D336J010AS	2.6	6		
33.0	D	10	T322D336K010AS	2.6	6	CX05F336K	T323D336K010AS
33.0	D	20	T322D336M010AS	2.6	6	CX05F336M	T323D336M010AS
39.0	D	5	T322D396J010AS	3.1	6		
39.0	D	10	T322D396K010AS	3.1	6	CX05F396K	T323D396K010AS
39.0	D	20	T322D396M010AS	3.1	6	CX05F396M	T323D396M010AS
47.0	D	5	T322D476J010AS	3.8	6		
47.0	D	10	T322D476K010AS	3.8	6	CX05F476K	T323D476K010AS
47.0	D	20	T322D476M010AS	3.8	6	CX05F476M	T323D476M010AS
56.0	E	5,10,20	T322E566(1)010AS	4.4	6		
68.0	E	5,10,20	T322E686(1)010AS	5.0	6		
82.0	E	5,10,20	T322E826(1)010AS	5.0	8		
100.0	E	5,10,20	T322E107(1)010AS	8.0	8		
120.0	E	5,10,20	T322E127(1)010AS	9.6	8		
150.0	E	5,10,20	T322E157(1)010AS	10.0	8		
180.0	F	5,10,20	T322F187(1)010AS	10.0	8		
220.0	F	5,10,20	T322F227(1)010AS	10.0	8		
15 VOLT RATING AT 85°C — 10 VOLT RATING AT 125°C							
1.5	A	5,10,20	T322A155(1)015AS	0.5	4		
1.8	A	5,10,20	T322A185(1)015AS	0.5	4		
2.2	A	5	T322A225J015AS	0.5	4		
2.2	A	10	T322A225K015AS	0.5	4	CX05H225K	T323A225K015AS
2.2	A	20	T322A225M015AS	0.5	4	CX05H225M	T323A225M015AS
2.7	B	5,10,20	T322B275(1)015AS	0.5	4		
3.3	B	5,10,20	T322B335(1)015AS	0.5	4		
3.9	B	5,10,20	T322B395(1)015AS	0.5	4		
4.7	B	5,10,20	T322B475(1)015AS	0.6	4		
5.6	B	5,10,20	T322B565(1)015AS	0.7	4		
6.8	B	5	T322B685J015AS	0.8	6		
6.8	B	10	T322B685K015AS	0.8	6	CX05H685K	T323B685K015AS
6.8	B	20	T322B685M015AS	0.8	6	CX05H685M	T323B685M015AS
8.2	C	5,10,20	T322C825(1)015AS	1.0	6		
10.0	C	5,10,20	T322C106(1)015AS	1.2	6		
12.0	C	5,10,20	T322C126(1)015AS	1.4	6		
15.0	C	5	T322C156J015AS	1.5	6		
15.0	C	10	T322C156K015AS	1.5	6	CX05H156K	T323C156K015AS
15.0	C	20	T322C156M015AS	1.5	6	CX05H156M	T323C156M015AS

(1) To complete KEMET Part Number, insert Capacitance Tolerance Symbol as follows: M — ±20%, K — ±10%, J — ±5%
Bold Face lines indicate preferred part types and values.

T322/T323 Series Tantalum
Molded / Axial

RATINGS & PART NUMBER REFERENCE

CAPACITANCE µF	CASE SIZE	CAPACITANCE TOLERANCE ±%	KEMET T322 SERIES			CX01 & CX05 CAPACITORS PER MIL-PRF-49137/1 & 5	
			KEMET PART NUMBER	D. C. LEAKAGE µA@25°C	MAX. DISSIPATION FACTOR %@25°C, 120 HZ	MILITARY PART NUMBER	KEMET PART NUMBER
15 VOLT RATING AT 85°C — 10 VOLT RATING AT 125°C (Cont'd)							
18.0	D	5,10,20	T322D186(1)015AS	2.2	6	CX05H226K CX05H226M	T323D226K015AS T323D226M015AS
22.0	D	5	T322D226J015AS	2.6	6		
22.0	D	10	T322D226K015AS	2.6	6		
22.0	D	20	T322D226M015AS	2.6	6		
27.0	D	5,10,20	T322D276(1)015AS	3.2	6	CX05H336K CX05H336M	T323D336K015AS T323E336M015AS
33.0	D	5	T322D336J015AS	4.0	6		
33.0	D	10	T322D336K015AS	4.0	6		
33.0	D	20	T322D336M015AS	4.0	6		
39.0	E	5,10,20	T322E396(1)015AS	4.7	6		
47.0	E	5,10,20	T322E476(1)015AS	5.0	6		
56.0	E	5,10,20	T322E566(1)015AS	6.7	6		
68.0	E	5,10,20	T322E686(1)015AS	8.2	6		
82.0	E	5,10,20	T322E826(1)015AS	9.8	8		
100.0	E	5,10,20	T322E107(1)015AS	10.0	8		
120.0	F	5,10,20	T322F127(1)015AS	10.0	8		
150.0	F	5,10,20	T322F157(1)015AS	10.0	8		
20 VOLT RATING AT 85°C — 13 VOLT RATING AT 125°C							
1.0	A	5,10,20	T322A105(1)020AS	0.5	4	CX05J155K CX05J155M	T323A155K020AS T323A155M020AS
1.2	A	5,10,20	T322A125(1)020AS	0.5	4		
1.5	A	5	T322A155J020AS	0.5	4		
1.5	A	10	T322A155K020AS	0.5	4		
1.5	A	20	T322A155M020AS	0.5	4	CX05J475K CX05J475M	T323B475K020AS T323B475M020AS
1.8	B	5,10,20	T322B185(1)020AS	0.5	4		
2.2	B	5,10,20	T322B225(1)020AS	0.5	4		
2.7	B	5,10,20	T322B275(1)020AS	0.5	4		
3.3	B	5,10,20	T322B335(1)020AS	0.5	4		
3.9	B	5,10,20	T322B395(1)020AS	0.6	4		
4.7	B	5	T322B475J020AS	0.8	4		
4.7	B	10	T322B475K020AS	0.8	4		
4.7	B	20	T322B475M020AS	0.8	4		
5.6	C	5,10,20	T322C565(1)020AS	0.9	4		
6.8	C	5,10,20	T322C685(1)020AS	1.1	6		
8.2	C	5,10,20	T322C825(1)020AS	1.3	6		
10.0	C	5,10,20	T322C106(1)020AS	1.6	6		
12.0	D	5	T322D126J020AS	1.9	6	CX05J126K CX05J126M	T323D126K020AS T323D126M020AS
12.0	D	10	T322D126K020AS	1.9	6		
12.0	D	20	T322D126M020AS	1.9	6		
15.0	D	5	T322D156J020AS	2.4	6		
15.0	D	10	T322D156K020AS	2.4	6	CX05J156K CX05J156M	T323D156K020AS T323D156M020AS
15.0	D	20	T322D156M020AS	2.4	6		
18.0	D	5,10,20	T322D186(1)020AS	2.9	6		
22.0	D	5,10,20	T322D226(1)020AS	3.5	6		
27.0	E	5,10,20	T322E276(1)020AS	4.3	6		
33.0	E	5,10,20	T322E336(1)020AS	5.0	6		
39.0	E	5,10,20	T322E396(1)020AS	6.2	6		
47.0	E	5,10,20	T322E476(1)020AS	7.5	6		
56.0	E	5,10,20	T322E566(1)020AS	8.9	6		
68.0	E	5,10,20	T322E686(1)020AS	10.0	6		
82.0	F	5,10,20	T322F826(1)020AS	10.0	8		
100.0	F	5,10,20	T322F107(1)020AS	10.0	8		
25 VOLT RATING AT 85°C — 17 VOLT RATING AT 125°C							
0.47	A	5,10,20	T322A474(1)025AS	0.5	3	CX05K105K CX05K105M	T323A105K025AS T323A105M025AS
0.56	A	5,10,20	T322A564(1)025AS	0.5	3		
0.68	A	5,10,20	T322A684(1)025AS	0.5	3		
0.82	A	5,10,20	T322A824(1)025AS	0.5	3		
1.0	A	5	T322A105J025AS	0.5	3		
1.0	A	10	T322A105K025AS	0.5	3		
1.0	A	20	T322A105M025AS	0.5	3	CX01K155K CX01K155M	T323B155K025AS T323B155M020AS
1.2	B	5,10,20	T322B125(1)025AS	0.5	3		
1.5	B	5	T322B155J025AS	0.5	3		
1.5	B	10	T322B155K025AS	0.5	3		
1.5	B	20	T322B155M025AS	0.5	3		
1.8	B	5	T322B185J025AS	0.5	3		
1.8	B	10	T322B185K025AS	0.5	3		
1.8	B	20	T322B185M025AS	0.5	3		
2.2	B	5	T322B225J025AS	0.5	3		
2.2	B	10	T322B225K025AS	0.5	3		
2.2	B	10	T322B225M025AS	0.5	3	CX05K225K	T323B225K025AS

(1) To complete KEMET Part Number, insert Capacitance Tolerance Symbol as follows: M — ±20%, K — ±10%, J — ±5%
Bold Face lines indicate preferred part types and values.

RATINGS & PART NUMBER REFERENCE

CAPACITANCE µF	CASE SIZE	CAPACITANCE TOLERANCE ±%	KEMET T322 SERIES			CX01 & CX05 CAPACITORS PER MIL-PRF-49137/1 & 5			
			KEMET PART NUMBER	D. C. LEAKAGE µA@25°C	MAX. DISSIPATION FACTOR %@25°C, 120 HZ	MILITARY PART NUMBER	KEMET PART NUMBER		
25 VOLT RATING AT 85°C — 17 VOLT RATING AT 125°C (Cont'd)									
2.2	B	20	T322B225M025AS	0.5	3	CX01/5K225M	T323B225M025AS		
2.7	B	5,10,20	T322B275(1)025AS	0.5	3				
3.3	B	5	T322B335J025AS	0.7	3				
3.3	B	10	T322B335K025AS	0.7	3				
3.3	B	20	T322B335M025AS	0.7	3				
3.9	C	5,10,20	T322C395(1)025AS	0.8	3	CX05K335K CX05K335M	T323B335K025AS T323B335M025AS		
4.7	C	5,10,20	T322C475(1)025AS	0.9	4				
5.6	C	5,10,20	T322C565(1)025AS	1.1	4				
6.8	C	5	T322C685J025AS	1.4	4				
6.8	C	10	T322C685K025AS	1.4	4				
6.8	C	20	T322C685M025AS	1.4	4				
8.2	C	5,10,20	T322C825(1)025AS	1.5	4				
10.0	C	5	T322C106J025AS	1.5	4				
10.0	C	10	T322C106K025AS	1.5	4				
10.0	C	20	T322C106M025AS	1.5	4				
12.0	D	5,10,20	T322D126(1)025AS	2.4	4	CX05K106K CX05K106M	T323C106K025AS T323C106M025AS		
15.0	D	5,10,20	T322D156(1)025AS	3.0	4				
18.0	E	5,10,20	T322E186(1)025AS	3.6	6				
22.0	E	5,10,20	T322E226(1)025AS	4.4	6				
27.0	E	5,10,20	T322E276(1)025AS	5.4	6				
33.0	E	5,10,20	T322E336(1)025AS	6.6	6				
39.0	E	5,10,20	T322E396(1)025AS	7.8	6				
47.0	E	5,10,20	T322E476(1)025AS	9.4	6				
56.0	F	5,10,20	T322F566(1)025AS	10.0	6				
68.0	F	5,10,20	T322F686(1)025AS	10.0	6				
35 VOLT RATING AT 85°C — 23 VOLT RATING AT 125°C									
0.1	A	5,10,20	T322A104(1)035AS	0.5	3			CX05M334K CX05M334M	T323A334K035AS T323A334M035AS
0.12	A	5,10,20	T322A124(1)035AS	0.5	3				
0.15	A	5,10,20	T322A154(1)035AS	0.5	3				
0.18	A	5,10,20	T322A184(1)035AS	0.5	3				
0.22	A	5,10,20	T322A224(1)035AS	0.5	3				
0.27	A	5,10,20	T322A274(1)035AS	0.5	3				
0.33	A	5	T322A334J035AS	0.5	3				
0.33	A	10	T322A334K035AS	0.5	3				
0.33	A	20	T322A334M035AS	0.5	3				
0.39	A	5,10,20	T322A394(1)035AS	0.5	3				
0.47	A	5	T322A474J035AS	0.5	3				
0.47	A	10	T322A474K035AS	0.5	3				
0.47	A	20	T322A474M035AS	0.5	3				
0.56	B	5	T322B564J035AS	0.5	3	CX01M564K CX01M564M	T323B564K035AS T323B564M035AS		
0.56	B	10	T322B564K035AS	0.5	3				
0.56	B	20	T322B564M035AS	0.5	3				
0.68	B	5	T322B684J035AS	0.5	3				
0.68	B	10	T322B684K035AS	0.5	3				
0.68	B	20	T322B684M035AS	0.5	3				
0.82	B	5	T322B824J035AS	0.5	3				
0.82	B	10	T322B824K035AS	0.5	3				
0.82	B	20	T322B824M035AS	0.5	3				
1.0	B	5	T322B105J035AS	0.5	3				
1.0	B	10	T322B105K035AS	0.5	3				
1.0	B	20	T322B105M035AS	0.5	3				
1.2	B	5	T322B125J035AS	0.5	3	CX01M125K CX01M125M	T323B125K035AS T323B125M035AS		
1.2	B	10	T322B125K035AS	0.5	3				
1.2	B	20	T322B125M035AS	0.5	3				
1.5	B	5	T322B155J035AS	0.5	3				
1.5	B	10	T322B155K035AS	0.5	3				
1.5	B	20	T322B155M035AS	0.5	3				
1.8	C	5,10,20	T322C185(1)035AS	0.5	3	CX05M335K CX05M335M	T323C335K035AS T323C335M035AS		
2.2	C	5,10,20	T322C225(1)035AS	0.6	3				
2.7	C	5,10,20	T322C275(1)035AS	0.8	3				
3.3	C	5	T322C335J035AS	0.9	4				
3.3	C	10	T322C335K035AS	0.9	4				
3.3	C	20	T322C335M035AS	0.9	4				
3.9	C	5	T322C395J035AS	1.1	4				
3.9	C	10	T322C395K035AS	1.1	4				
3.9	C	20	T322C395M035AS	1.1	4				
4.7	C	5	T322C475J035AS	1.3	4				
4.7	C	10	T322C475K035AS	1.3	4				
4.7	C	20	T322C475M035AS	1.3	4				

(1) To complete KEMET Part Number, insert Capacitance Tolerance Symbol as follows: M — ±20%, K — ±10%, J — ±5%
Bold Face lines indicate preferred part types and values.



TANTALUM MOLDED / AXIAL — MIL-PRF-49137/1 & 5

T322 & T323 (CX01 & CX05) SERIES

RATINGS & PART NUMBER REFERENCE

CAPACITANCE μF	CASE SIZE	CAPACITANCE TOLERANCE ±%	KEMET T322 SERIES			CX01 & CX05 CAPACITORS PER MIL-PRF-49137/1 & 5	
			KEMET PART NUMBER	D. C. LEAKAGE μA@25°C	MAX. DISSIPATION FACTOR %@25°C, 120 HZ	MILITARY PART NUMBER	KEMET PART NUMBER
35 VOLT RATING AT 85°C — 23 VOLT RATING AT 125°C							
5.6	D	5,10,20	T322D565(1)035AS	1.6	4	CX05M685K CX05M685M	T323D685K035AS T323D685M035AS
6.8	D	5	T322D685J035AS	1.9	4		
6.8	D	10	T322D685K035AS	1.9	4		
6.8	D	20	T322D685M035AS	1.9	4		
8.2	D	5,10,20	T322D825(1)035AS	2.3	4		
10.0	D	5	T322D106J035AS	2.8	4		
10.0	D	10	T322D106K035AS	2.8	4		
10.0	D	20	T322D106M035AS	2.8	4		
12.0	E	5,10,20	T322E126(1)035AS	3.3	4		
15.0	E	5,10,20	T322E156(1)035AS	4.2	6		
18.0	E	5,10,20	T322E186(1)035AS	5.0	6		
22.0	E	5,10,20	T322E226(1)035AS	6.2	6		
27.0	E	5,10,20	T322E276(1)035AS	7.5	6		
33.0	E	5,10,20	T322E336(1)035AS	9.2	6		
39.0	F	5,10,20	T322F396(1)035AS	10.0	6		
47.0	F	5,10,20	T322F476(1)035AS	10.0	6		
50 VOLT RATING AT 85°C — 33 VOLT RATING AT 125°C							
0.1	A	5	T322A104J050AS	0.5	3	CX05N104K CX05N104M	T323A104K050AS T323A104M050AS
0.1	A	10	T322A104K050AS	0.5	3		
0.1	A	20	T322A104M050AS	0.5	3		
0.12	A	5,10,20	T322A124(1)050AS	0.5	3		
0.15	A	5	T322A154J050AS	0.5	3	CX05N154K CX05N154M	T323A154K050AS T323A154M050AS
0.15	A	10	T322A154K050AS	0.5	3		
0.15	A	20	T322A154M050AS	0.5	3		
0.18	A	5,10,20	T322A184(1)050AS	0.5	3		
0.22	A	5	T322A224J050AS	0.5	3	CX05N224K CX05N224M	T323A224K050AS T323A224M050AS
0.22	A	10	T322A224K050AS	0.5	3		
0.22	A	20	T322A224M050AS	0.5	3		
0.27	A	5,10,20	T322A274(1)050AS	0.5	3		
0.33	B	5	T322B334J050AS	0.5	3	CX05N334K CX05N334M	T323B334K050AS T323B334M050AS
0.33	B	10	T322B334K050AS	0.5	3		
0.33	B	20	T322B334M050AS	0.5	3		
0.39	B	5	T322B394J050AS	0.5	3		
0.39	B	10	T322B394K050AS	0.5	3		
0.39	B	20	T322B394M050AS	0.5	3		
0.47	B	5	T322B474J050AS	0.5	3	CX05N474K CX05N474M	T323B474K050AS T323B474M050AS
0.47	B	10	T322B474K050AS	0.5	3		
0.47	B	20	T322B474M050AS	0.5	3		
0.56	B	5,10,20	T322B564(1)050AS	0.5	3		
0.68	B	5	T322B684J050AS	0.5	3	CX05N684K CX05N684M	T323B684K050AS T323B684M050AS
0.68	B	10	T322B684K050AS	0.5	3		
0.68	B	20	T322B684M050AS	0.5	3		
0.82	B	5,10,20	T322B824(1)050AS	0.5	3		
1.0	B	5	T322B105J050AS	0.5	3	CX05N105K CX05N105M	T323B105K050AS T323B105M050AS
1.0	B	10	T322B105K050AS	0.5	3		
1.0	B	20	T322B105M050AS	0.5	3		
1.2	C	5,10,20	T322C125(1)050AS	0.5	3		
1.5	C	5	T322C155J050AS	0.6	4	CX05N155K CX05N155M	T323C155K050AS T323C155M050AS
1.5	C	10	T322C155K050AS	0.6	4		
1.5	C	20	T322C155M050AS	0.6	4		
1.8	C	5,10,20	T322C185(1)050AS	0.7	4		
2.2	C	5	T322C225J050AS	0.9	4	CX05N225K CX05N225M	T323C225K050AS T323C225M050AS
2.2	C	10	T322C225K050AS	0.9	4		
2.2	C	20	T322C225M050AS	0.9	4		
2.7	D	5,10,20	T322D275(1)050AS	1.1	4		
3.3	D	5	T322D335J050AS	1.3	4	CX05N335K CX05N335M	T323D335K050AS T323D335M050AS
3.3	D	10	T322D335K050AS	1.3	4		
3.3	D	20	T322D335M050AS	1.3	4		
3.9	D	5,10,20	T322D395(1)050AS	1.6	4		
4.7	D	5	T322D475J050AS	1.9	4	CX05N475K CX05N475M	T323D475K050AS T323D475M050AS
4.7	D	10	T322D475K050AS	1.9	4		
4.7	D	20	T322D475M050AS	1.9	4		
5.6	E	5,10,20	T322E565(1)050AS	2.2	4		
6.8	E	5,10,20	T322E685(1)050AS	2.7	4		
8.2	E	5,10,20	T322E825(1)050AS	3.2	4		
10.0	E	5,10,20	T322E106(1)050AS	4.0	6		
12.0	F	5,10,20	T322F126(1)050AS	4.8	6		
15.0	F	5,10,20	T322F156(1)050AS	6.0	6		
18.0	F	5,10,20	T322F186(1)050AS	7.2	6		
22.0	F	5,10,20	T322F226(1)050AS	8.8	6		

(1) To complete KEMET Part Number, insert Capacitance Tolerance Symbol as follows: M — ±20%, K — ±10%, J — ±5%
Bold Face lines indicate preferred part types and values.