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Jameco Part Number 1574217

# SOLID TANTALUM CHIP CAPACITORS KEN

**T491 SERIES - Precision Molded Chip** 

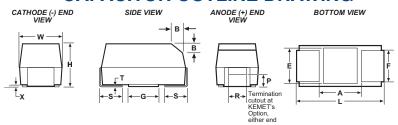
#### **FEATURES**

- Meets or Exceeds EIA Standard 535BAAC
- Taped and Reeled per EIA 481-1
- Symmetrical, Compliant Terminations
  Optional Gold-plated Terminations
  Laser-marked Case

- 100% Surge current test on C, D, E, U, V, X sizes
- Halogen Free Epoxy Capacitance: 0.1 μF to 1000 μF

- Tolerance: ±10%, ±20%
- Voltage: 2.5-50 VDC
- **Extended Range Values**
- Low Profile Case Sizes
- RoHS Compliance & Lead Free Terminations (See www.kemet.com for transition information)
- Operating Temperature: -55°C to +125°C

## CAPACITOR OUTLINE DRAWING



## STANDARD T491 DIMENSIONS

Millimeters (inches)

							•							
Case	Size	Component												
KEMET	EIA	L*	W*	Н*	F* ± 0.1 ± (.004)	S* ± 0.3 ± (.012)	B ± 0.15 (Ref) ± .006	X (Ref)	P (Ref)	R (Ref)	T (Ref)	A (Min)	G (Ref)	E (Ref)
Α	3216-18	3.2 ± 0.2 (.126 ± .008)	1.6 ± 0.2 (.063 ± .008)	1.6 ± 0.2 (.063 ± .008)	1.2 (.047)	0.8 (.031)	0.4 (.016)	0.10 ± 0.10 (.004 ± .004)	0.4 (.016)	0.4 (.016)	0.13 (.005)	1.4 (.055)	1.1 (.043)	1.3 (.051)
В	3528-21	3.5 ± 0.2 (.138 ± .008)	2.8 ± 0.2 (.110 ± .008)	1.9 ± 0.2 (.075 ± .008)	2.2 (.087)	0.8 (.031)	0.4 (.016)	0.10 ± 0.10 (.004 ± .004)	0.5 (.020)	1.0 (.039)	0.13 (.005)	1.1 (.043)	1.8 (.071)	2.2 (.087)
С	6032-28	6.0 ± 0.3 .236 ± .012	3.2 ± 0.3 (.126 ± .012)	2.5 ± 0.3 (.098 ± .012)	2.2 (.087)	1.3 (.051)	0.5 (.020)	0.10 ± 0.10 (.004 ± .004)	0.9 (.035)	1.0 (.039)	0.13 (.005)	3.1 (.122)	2.8 (.110)	2.4 (.094)
D	7343-31	7.3 ± 0.3 (.287 ± .012)	4.3 ± 0.3 (.169 ± .012)	2.8 ± 0.3 (.110 ± .012)	2.4 (.094)	1.3 (.051)	0.5 (.020)	0.10 ± 0.10 (.004 ± .004)	0.9 (.035)	1.0 (.039)	0.13 (.005)	3.8 (.150)	3.5 (.138)	3.5 (.138)
Х	7343-43	7.3 ± 0.3 (.287 ± .012)	4.3 ± 0.3 (.169 ± .012)	4.0 ± 0.3 (.157 ± .012)	2.4 (.094)	1.3 (.051)	0.5 (.020)	0.10 ± 0.10 (.004 ± .004)	1.7 (.067)	1.0 (.039)	0.13 (.005)	3.8 (.150)	3.5 (.138)	3.5 (.138)
E	7260-38	7.3 ± 0.3 (.287 ± .012)	6.0 ± 0.3 (.236 ± .012)	3.6 ± 0.2 (.142 ± .008)	4.1 (.161)	1.3 (.051)	0.5 (.020)	0.10 ± 0.10 (.004 ± .004)	0.9 (.035)	1.0 (.039)	0.13 (.005)	3.8 (.150)	3.5 (.138)	3.5 (.138)

Notes: 1. Metric dimensions govern

# **LOW PROFILE T491 DIMENSIONS**

Millimeters (inches)

Cas	e Size	Component										
KEMET	EIA	L*	W*	H max	F* ± 0.1 ± (.004)	S* ± 0.3 ± (.012)	X (Ref)	T (Ref)	A (Min)	G (Ref)	E (Ref)	
R	2012-12	2.0 ± 0.2 (.079 ± .008)	1.3 ± 0.2 (.051 ± .008)	1.2 (.047)	0.9 (.035)	0.5 (.020)	0.05 (.002)	0.13 (.005)	0.8 (.031)	0.5 (.020)	0.8 (.031)	
S	3216-12	3.2 ± 0.2 (.126 ± .008)	1.6 ± 0.2 (.063 ± .008)	1.2 (.047)	1.2 (.047)	0.8 (.031)	0.05 (.002)	0.13 (.005)	1.4 (.055)	1.1 (.043)	1.3 (.051)	
Т	3528-12	3.5 ± 0.2 (.138 ± .008)	2.8 ± 0.2 (.110 ± .008)	1.2 (.047)	2.2 (.087)	0.8 (.031)	0.05 (.002)	0.13 (.005)	1.1 (.083)	1.8 (.071)	2.2 (.087)	
U	6032-15	6.0 ± 0.3 (.236 ± .012)	3.2 ± 0.3 (.126 ± .012)	1.5 (.059)	2.2 (.087)	1.3 (.051)	0.05 (.002)	0.13 (.005)	3.1 (.122)	2.8 (.110)	2.4 (.094)	
٧	7343-20	7.3 ± 0.3 (.287 ± .012)	4.3 ± 0.3 (.169 ± .012)	2.0 (.079)	2.4 (.094)	1.3 (.051)	0.05 (.002)	0.13 (.005)	3.8 (.150)	3.5 (.138)	3.5 (.138)	

Notes: 1. Metric dimensions govern

## T491 ORDERING INFORMATION

<u>T</u> 49	<u>1</u> <u>S</u>	<u>685</u>	<u>K</u>	<u>004</u>	<u>A</u>	I	
Tantalum ———							Lead Material
Series 491 – Industrial  Case Size						H = Stand (SnPt	Matte Tin (Sn) Plated* lard Solder Coated 55% Pb minimum) Plated (A,B,C,D,X only
A,B,C,D,E,R,S,T,U,V,X					L		Failure Rate A = Not Applicable
Capacitance Picofarad Code First two digits represent significant figures. Third digit specifies number of zeros.						c	Voltage As Shown Capacitance Tolerance

 $M = \pm 20\%$ \*Part number example: T491B105M035AT (14 digits - no spaces). See www.kemet.com for Pb Free transition.
\*\* "S" Termination codes are converting from 90Sn/10 Pb to 100% tin finishes. Orders including "S" suffix termination codes do not quarantee Pb-free product.  $K = \pm 10\%$ 

<sup>2. (</sup>Ref) Dimensions provided for reference only \* Mil-PRF-55365/8 Specified Dimensions

<sup>2. (</sup>Ref) Dimensions provided for reference only
3. No dimensions provided for B,P or R because low profile cases do not have a bevel or a notch.



# **SOLID TANTALUM CHIP CAPACITORS**

**T491 SERIES—Precision Molded Chip** 

# T491 TANTALUM CHIP CAPACITANCE VALUES Case Size by Capacitance and Voltage

Capaci	itance					ated Volta		5°C			
μF	Code	2.5	3	4	6	10	16	20	25	35	50
0.10	104									Α	Α
0.15	154									Α	A/B
0.22	224									Α	В
0.33	334								Α	Α	В
0.47	474								Α	A/B	B/C
0.68	684							Α	Α	A/B	B/C
1.0	105						Α	R/S/A	A/B	A/B	V/B/C
1.5	155					Α	Α	S/A	R/A/B	B/C	C/D
2.2	225				R/A	A/B	R/S/A	R/A/B	B/C	B/C	C/D
3.3	335			Α	Α	R/S/A	A/B	T/A/B	B/C	B/C	D
4.7	475			Α	S/A	A/B R/S	A/B/T	A/B/C	A/B/C	B/C/D	D
6.8	685			S/A	R/S A/B	S/T A/B	A/B/C	U/A/B/C	B/C	C/D	D/X
10.0	106			R/S A/B	R/S/T A/B	S/T/A B/C	B/C/U T/A	U/B/C	B/C/D	V/C/D	D/X
15.0	156			S/T A/B	S/T A/B/C	T/U A/B/C	U/A/B/C	C/D	C/D	C/D/X	Х
22.0	226			S/T A/B/C	U/T A/B/C	T/U A/B/C	U/B C/D	V/C/D	V/C/D	D/X	
33.0	336		Α	T/U A/B/C	T/U A/B/C	U/V/A T/B/C/D	U/C/D	V/C/D	D/X	Х	
47.0	476			T/U A/B/C	T/U/A B/C/D	U/V B/C/D	V/C/D	D	D/X	X/E	
68.0	686			U/A B/C/D	U/B C/D	U/V B/C/D	V/C/D	D/X	D/X		
100.0	107	Т		T/U/A B/C/D	U/V B/C/D	V/C/D	V/D/X	D/X/E			
150.0	157			V/B C/D	V/C/D	V/C D/X	D/X				
220.0	227			V/B	V/C D/X	V/D/X	Х				
330.0	337			V/C/D	D/X	D/X/E					
470.0	477			D/X	D/X/E	X/E					
680.0	687			D/X	E						
1000.0	108			X/E							

# SOLID TANTALUM CHIP CAPACITORS KEMET

**T491 SERIES - Precision Molded Chip** 



## **T491 RATINGS & PART NUMBER REFERENCE**

		14	JI NA	IIIVG	<u> </u>
0			DC	DF %	$ESR\Omega$
Capaci-	Case	KEMET	Leakage	@ +25°C	@ +25°C
tance	Size	Part Number	μA @ 25°C	120 Hz	100 kHz
μF	0.20	l art Hamber	. –	Max	
		<u> </u>	Max		Max
	2.5 \	Volt Rating at +85°C (1.7 Vo	olt Rating at +	-125°C)	
100.0	Т	T491T107(1)2R5A(2)	2.5	24.0	3.9
220.0	D	T491D227(1)2R5A(2)	5.5	8.0	0.3
	3 \	Volt Rating at +85°C (2 Vol	t Rating at +1:	25°C)	
#33.0	Α	T491A336(1)003A(2)	1.0	6.0	4.0
	4 V	olt Rating at +85°C (2.7 Vo	It Rating at +	125°C)	
3.3	Α	T491A335(1)004A(2)	0.5	6.0	8.0
4.7	Α	T491A475(1)004A(2)	0.5	6.0	8.0
6.8	Α	T491A685(1)004A(2)	0.5	6.0	6.0
6.8	S	T491S685(1)004A(2)	0.5	6.0	15.0
10.0	В	T491B106(1)004A(2)	0.5	6.0	3.5
10.0	Α	T491A106(1)004A(2)	0.5	6.0	6.0
#10.0	S	T491S106(1)004A(2)	0.5	6.0	15.0
#10.0	R	T491R106(1)004A(2)	0.5	8.0	10.0
15.0	В	T491B156(1)004A(2)	0.6	6.0	3.5
15.0	Α	T491A156(1)004A(2)	0.6	6.0	4.0
15.0	T	T491T156(1)004A(2)	0.6	6.0	5.0
#15.0	S	T491S156(1)004A(2)	0.6	10.0	15.0
22.0	С	T491C226(1)004A(2)	0.9	6.0	1.8
22.0	В	T491B226(1)004A(2)	0.9	6.0	3.5
#22.0	A	T491A226(1)004A(2)	0.9	6.0	4.0
#22.0	T	T491T226(1)004A(2)	0.9	6.0	5.0
22.0	S	T491S226(1)004A(2)	0.9	10.0	10.0
33.0	C D	T491C336(1)004A(2)	1.3	6.0	1.8
33.0 33.0	В	T491U336(1)004A(2) T491B336(1)004A(2)	1.3 1.3	6.0 6.0	1.8 3.5
	A	T491A336(1)004A(2)			3.5 4.0
#33.0 #33.0	T	T491T336(1)004A(2)	1.3 1.3	6.0 8.0	5.0
47.0	C	T491C476(1)004A(2)	1.9	6.0	1.8
47.0	Ŭ	T491U476(1)004A(2)	1.9	6.0	1.8
#47.0	В	T491B476(1)004A(2)	1.9	6.0	3.0
#47.0	Ä	T491A476M004A(2)	1.9	12.0	2.5
#47.0	T	T491T476M004A(2)	1.9	12.0	6.0
68.0	Ď	T491D686(1)004A(2)	2.7	6.0	0.8
68.0	С	T491C686(1)004A(2)	2.7	6.0	1.6
#68.0	Ü	T491U686(1)004A(2)	2.7	6.0	1.8
#68.0	В	T491B686(1)004A(2)	2.7	6.0	3.5
#68.0	Α	T491A686(1)004A(2)	2.8	30.0	4.0
100.0	D	T491D107(1)004A(2)	4.0	8.0	0.8
#100.0	С	T491C107(1)004A(2)	4.0	8.0	1.2
#100.0	U	T491U107(1)004A(2)	4.0	10.0	1.8
#100.0	В	T491B107M004A(2)	4.0	8.0	0.9
†100.0	A	T491A107M004A(2)	4.0	30.0	4.0
†100.0	T D	T491T107M004A(2)	4.0	30.0	5.0
150.0 150.0	V	T491D157(1)004A(2) T491V157(1)004A(2)	6.0 6.0	8.0 8.0	0.8 0.7
#150.0	Č	T491C157(1)004A(2)	6.0	8.0	1.2
†150.0	В	T491B157M004A(2)	6.0	12.0	2.0
#220.0	V	T491V227(1)004A(2)	8.8	8.0	0.7
#220.0	B	T491B227M004A(2)	8.8	18.0	0.7
330.0	D	T491D337(1)004A(2)	13.2	8.0	0.7
†330.0	V	T491V337(1)004A(2)	13.2	12.0	0.7
#330.0	Ċ	T491C337(1)004A(2)	13.2	10.0	0.9
#470.0	Х	T491X477(1)004A(2)	18.8	8.0	0.5
#470.0	D	T491D477(1)004A(2)	18.8	8.0	0.8
#680.0	Χ	T491X687(1)004A(2)	27.2	12.0	0.5
#680.0	D	T491D687(1)004A(2)	27.2	12.0	0.5
#1000.0	X	T491X108(1)004A(2)	40.0	12.0	0.5
#1000.0	E	T491E108M004A(2)	40.0	15.0	0.2
		.3 Volt Rating at +85°C (4 V			
2.2	R	T491R225(1)006A(2)	0.5	6.0	25.0
2.2	Α	T491A225(1)006A(2)	0.5	6.0	8.0
3.3	Α	T491A335(1)006A(2)	0.5	6.0	8.0
4.7	Α	T491A475(1)006A(2)	0.5	6.0	6.0
4.7	S	T491S475(1)006A(2)	0.5	6.0	15.0
6.8	В	T491B685(1)006A(2)	0.5	6.0	3.5
6.8 #6.8	A S	T491A685(1)006A(2)	0.5	6.0	6.0 15.0
#6.8 #6.8	R	T491S685(1)006A(2) T491R685(1)006A(2)	0.5 0.5	6.0 8.0	15.0 15.0
10.0	B	T491B106(1)006A(2)	0.6	6.0	3.5
10.0	A	T491A106(1)006A(2)	0.6	6.0	3.5 4.0
10.0	T	T491T106(1)006A(2)	0.6	6.0	4.0 5.0
#10.0	S	T491S106(1)006A(2)	0.6	10.0	15.0
#10.0	R	T491R106(1)006A(2)	0.6	8.0	10.0
,, 10.0		. 10 11 (100(1)000/1(2)	0.0	0.0	10.0

Capacitance   Fart Number   Part Number	11 111		JEN NEI ENI			
Tance   Part Number   Part	Canaci-			DC	DF %	$ESR \Omega$
## 1971   ## 197		Case	KEMET	Leakage	@ +25°C	@ +25°C
## 15.0 K 1491C156(1)005A(2)		Size	Part Number	µA @ 25°C	120 Hz	100 kHz
15.0   C	μF					
15.0   C   T491C156(1)006A(2)   0.9   6.0   3.5     15.0   A   T491B156(1)006A(2)   0.9   6.0   3.5     15.0   A   T491B156(1)006A(2)   0.9   6.0   3.5     15.0   A   T491A156(1)006A(2)   0.9   6.0   3.5     15.0   T   T491T156(1)006A(2)   0.9   6.0   5.0     15.0   S   T491S156(1)006A(2)   0.9   15.0   10.0     22.0   C   T491C226(1)006A(2)   1.4   6.0   1.8     22.0   B   T491B226(1)006A(2)   1.4   6.0   1.8     22.0   B   T491B226(1)006A(2)   1.4   6.0   4.0     22.0   A   T491A226(1)006A(2)   1.4   6.0   4.0     22.0   T   T491T226(1)006A(2)   1.4   6.0   4.0     33.0   C   T491C336(1)006A(2)   1.4   8.0   5.0     33.0   U   T491U336(1)006A(2)   2.0   6.0   1.8     33.0   U   T491U336(1)006A(2)   2.0   6.0   1.8     33.0   A   T491B336(1)006A(2)   2.0   6.0   1.8     33.0   A   T491B336(1)006A(2)   2.0   12.0   2.5     47.0   D   T491D476(1)006A(2)   2.9   6.0   0.8     47.0   C   T491C476(1)006A(2)   2.9   6.0   0.8     47.0   U   T491U476(1)006A(2)   2.9   6.0   1.6     47.0   D   T491B476(1)006A(2)   2.9   6.0   1.8     47.0   D   T491B476(1)006A(2)   2.9   6.0   1.8     47.0   D   T491B476(1)006A(2)   2.9   6.0   1.8     48.0   D   T491B476(1)006A(2)   2.9   6.0   1.8     48.0   D   T491B476(1)006A(2)   2.9   6.0   2.0     47.0   T   T491T476(1)006A(2)   2.9   6.0   2.0     47.0   T   T491T476(1)006A(2)   2.9   6.0   2.0     47.0   T   T491T476(1)006A(2)   2.9   6.0   2.0     47.0   T   T491B866(1)006A(2)   4.1   6.0   1.2     48.0   D   T491B68(1)006A(2)   4.1   6.0   1.2     48.0   D   T491B68(1)006A(2)   4.1   6.0   0.8     48.0   D   T491B68(1)006A(2)   4.1   6.0   0.0     48.0   D   T491B68(1)006A(2)   4.1   6.0   0.0     48.0   D   T491B68(1)006A(2)   4.1   6.0   0.0     50.0   D   T491D17(1)006A(2)   6.0   8.0   0.9     47.0   D   T491B68(1)006A(2)   4.1   6.0   0.0     50.0   D   T491B107(1)00						IVIGA
15.0   B						
#15.0 A T491/156(1)006A(2) 0.9 6.0 3.5   #15.0 S T491/156(1)006A(2) 0.9 15.0 10.0    22.0 C T491C226(1)006A(2) 1.4 6.0 1.8   22.0 B T491/1226(1)006A(2) 1.4 6.0 1.8   22.0 B T491/1226(1)006A(2) 1.4 6.0 3.5   #22.0 T7 T491/1226(1)006A(2) 1.4 6.0 3.5   #22.0 T7 T491/1226(1)006A(2) 1.4 8.0 5.0    33.0 C T491/1236(1)006A(2) 2.0 6.0 1.8   #33.0 B T491/1336(1)006A(2) 2.0 6.0 3.0   #33.0 A T491/1336(1)006A(2) 2.0 6.0 3.0   #33.0 A T491/1336(1)006A(2) 2.0 6.0 3.0   #33.0 T T491/1336(1)006A(2) 2.0 6.0 3.0   #33.0 T T491/1336(1)006A(2) 2.0 6.0 3.0   #47.0 D T491/1476(1)006A(2) 2.9 6.0 0.8   #47.0 U T491/1476(1)006A(2) 2.9 6.0 1.8   #47.0 B T491/1476(1)006A(2) 2.9 6.0 1.8   #47.0 B T491/1476(1)006A(2) 2.9 6.0 1.8   #47.0 T T491/1476(1)006A(2) 3.0 12.0 3.5    *47.0 T T491/1476(1)006A(2) 3.0 12.0 3.5    #47.0 T T491/1476(1)006A(2) 4.1 6.0 0.8   #68.0 D T491/1686(1)006A(2) 4.1 6.0 0.8   #68.0 D T491/1686(1)006A(2) 4.1 6.0 1.2   #68.0 D T491/1686(1)006A(2) 4.1 6.0 1.2   #68.0 D T491/1686(1)006A(2) 4.1 6.0 1.2   #68.0 D T491/1686(1)006A(2) 5.0 3.0   #68.0 D T491/1686(1)006A(2) 6.0 8.0 0.8   #68.0 D T491/1686(1)006A(2) 6.0 8.0 0.8   #68.0 D T491/1686(1)006A(2) 6.0 8.0 0.9   #68.0 D T491/1686(1)006A(2) 6.0 8.0 0.7    #68.0 D T491/1686(1)006A(2) 6.0 8.0 0.7    #68.0 D T491/167(1)006A(2) 6.0 8.0 0.						
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330.0   X						
330.0   D   T491D337(1)006A(2)   19.8   8.0   0.4     330.0   E   T491E337(1)006A(2)   20.8   8.0   0.5     470.0   X   T491X477(1)006A(2)   28.2   10.0   0.4     470.0   D   T491D477M006A(2)   28.2   12.0   0.4     470.0   E   T491E477(1)006A(2)   29.6   10.0   0.4     470.0   E   T491E477(1)006A(2)   29.6   10.0   0.4     680.0   E   T491E687M006A(2)   40.8   12.0   0.5						
330.0   E   T491E337(1)006A(2)   20.8   8.0   0.5     470.0   X   T491X477(1)006A(2)   28.2   10.0   0.4     470.0   D   T491D477M006A(2)   28.2   12.0   0.4     470.0   E   T491E477(1)006A(2)   29.6   10.0   0.4     680.0   E   T491E687M006A(2)   40.8   12.0   0.5     10 Volt Rating at +85°C (7 Volt Rating at +125°C)     1.5   A   T491A155(1)010A(2)   0.5   6.0   8.0     2.2   B   T491B225(1)010A(2)   0.5   6.0   8.0     2.2   B   T491B225(1)010A(2)   0.5   6.0   8.0     3.3   A   T491A335(1)010A(2)   0.5   6.0   8.0     3.3   S   T491S335(1)010A(2)   0.5   6.0   6.0     3.3   S   T491S335(1)010A(2)   0.5   6.0   6.0     4.7   B   T491B475(1)010A(2)   0.5   6.0   15.0     4.7   B   T491B475(1)010A(2)   0.5   6.0   3.5     4.7   A   T491A475(1)010A(2)   0.5   6.0   5.0     44.7   S   T491S475(1)010A(2)   0.5   6.0   15.0     44.7   S   T491S475(1)010A(2)   0.5   6.0   3.5     4.7   A   T491A475(1)010A(2)   0.5   6.0   3.5     4.7   A   T491A475(1)010A(2)   0.5   6.0   3.5     4.7   A   T491B475(1)010A(2)   0.7   6.0   3.5     6.8   B   T491B685(1)010A(2)   0.7   6.0   3.5     6.8   A   T491A685(1)010A(2)   0.7   6.0   3.5     6.8   A   T491A685(1)010A(2)   0.7   6.0   4.0     6.8   T   T491T685(1)010A(2)   0.7   6.0   4.0     6.8   T   T491S685(1)010A(2)   0.7   6.0   5.0     46.8   S   T491S685(1)010A(2)   0.7   6.0   3.5     6.8   A   T491A685(1)010A(2)   0.7   6.0   4.0     10.0   B   T491B166(1)010A(2)   1.0   6.0   3.5     410.0   A   T491A106(1)010A(2)   1.0   6.0   3.5     410.0   S   T491S685(1)010A(2)   1.0   6.0   3.5     410.0   S   T491S106(1)010A(2)   1.0   6.0   3.5     410.0   S   T491S106(1)010A(2)   1.5   6.0   1.8     15.0   U   T491L156(1)010A(2)   1.5   6.0   1.8     15.0   U   T491L156(1)010A(2)   1.5   6.0   2.8     415.0   A   T491A156(1)010A(2)   1.5   6.0   2.8     415.0   A   T491A156(1)010A(2)   1.5   6.0   2.8						
470.0         X         T491X477(1)006A(2)         28.2         10.0         0.4           470.0         D         T491D477M006A(2)         28.2         12.0         0.4           470.0         E         T491E477(1)006A(2)         29.6         10.0         0.4           680.0         E         T491E687M006A(2)         40.8         12.0         0.5           10 Volt Rating at +85°C (7 Volt Rating at +125°C)           1.5         A         T491A155(1)010A(2)         0.5         6.0         8.0           2.2         B         T491B225(1)010A(2)         0.5         6.0         3.5           2.2         A         T491A335(1)010A(2)         0.5         6.0         8.0           3.3         A         T491A335(1)010A(2)         0.5         6.0         6.0         15.0           3.3         R         T491R3335(1)010A(2)         0.5         6.0         15.0         15.0           4.7         A         T491R335(1)010A(2)         0.5         6.0         3.5           4.7         A         T491R475(1)010A(2)         0.5         6.0         3.5           4.7         A         T491R475(1)010A(2)         0.5         6.0         15.0						
470.0         D         T491D477M006A(2)         28.2         12.0         0.4           470.0         E         T491E477(1)006A(2)         29.6         10.0         0.4           680.0         E         T491E687M006A(2)         40.8         12.0         0.5           10 Volt Rating at +85°C (7 Volt Rating at +125°C)           1.5         A         T491A155(1)010A(2)         0.5         6.0         8.0           2.2         B         T491B225(1)010A(2)         0.5         6.0         8.0           3.3         A         T491A225(1)010A(2)         0.5         6.0         8.0           3.3         A         T491R335(1)010A(2)         0.5         6.0         8.0           3.3         R         T491R335(1)010A(2)         0.5         6.0         6.0         6.0           3.3         R         T491R335(1)010A(2)         0.5         6.0         15.0           4.7         B         T491B475(1)010A(2)         0.5         6.0         3.5           4.7         A         T491A475(1)010A(2)         0.5         6.0         15.0           #4.7         S         T491S475(1)010A(2)         0.5         6.0         15.0						
470.0         E         T491E477(1)006Å(2)         29.6         10.0         0.4           680.0         E         T491E687M006Å(2)         40.8         12.0         0.5           10 Volt Rating at +85°C (7 Volt Rating at +125°C)           1.5         A         T491A155(1)010A(2)         0.5         6.0         8.0           2.2         B         T491B225(1)010A(2)         0.5         6.0         8.0           2.2.2         A         T491A225(1)010A(2)         0.5         6.0         8.0           3.3         A         T491A335(1)010A(2)         0.5         6.0         6.0         8.0           3.3         A         T491S335(1)010A(2)         0.5         6.0         6.0         15.0           #3.3         R         T491B475(1)010A(2)         0.5         6.0         15.0           #4.7         B         T491B475(1)010A(2)         0.5         6.0         3.5           4.7         A         T491B475(1)010A(2)         0.5         6.0         15.0           #4.7         S         T491B475(1)010A(2)         0.5         6.0         15.0           #4.7         R         T491B685(1)010A(2)         0.7         6.0         3.5						-
680.0         E         T491E687M006A(2)         40.8         12.0         0.5           10 Volt Rating at +85°C (7 Volt Rating at +125°C)           1.5         A         T491A155(1)010A(2)         0.5         6.0         8.0           2.2         B         T491B225(1)010A(2)         0.5         6.0         3.5           2.2         A         T491A225(1)010A(2)         0.5         6.0         8.0           3.3         A         T491A335(1)010A(2)         0.5         6.0         6.0         15.0           3.3         R         T491R335(1)010A(2)         0.5         6.0         15.0         15.0           4.7         B         T491R335(1)010A(2)         0.5         6.0         3.5         14.0         4.7         A         T491R475(1)010A(2)         0.5         6.0         3.5         5.0         4.7         A         T491R475(1)010A(2)         0.5         6.0         3.5         5.0         4.7         A         T491R475(1)010A(2)         0.5         6.0         15.0         4.7         A         T491R475(1)010A(2)         0.5         6.0         15.0         4.0         6.8         B         T491B685(1)010A(2)         0.7         6.0         3.5         6.8						-
10 Volt Rating at +85°C (7 Volt Rating at +125°C)     1.5						
1.5         A         T491A155(1)010A(2)         0.5         6.0         8.0           2.2         B         T491B225(1)010A(2)         0.5         6.0         3.5           2.2         A         T491A225(1)010A(2)         0.5         6.0         8.0           3.3         A         T491A335(1)010A(2)         0.5         6.0         6.0         6.0           3.3         S         T491R335(1)010A(2)         0.5         6.0         15.0           #3.3         R         T491R335(1)010A(2)         0.5         6.0         15.0           4.7         B         T491B475(1)010A(2)         0.5         6.0         3.5           4.7         A         T491R475(1)010A(2)         0.5         6.0         5.0           #4.7         S         T4918475(1)010A(2)         0.5         6.0         15.0           #4.7         R         T491R475(1)010A(2)         0.5         8.0         10.0           #4.7         R         T491R475(1)010A(2)         0.5         8.0         10.0           #6.8         B         T491B85(1)010A(2)         0.7         6.0         3.5           6.8         A         T491G85(1)010A(2)         0.7         6						
2.2         B         T491B225(1)010A(2)         0.5         6.0         3.5           2.2         A         T491A225(1)010A(2)         0.5         6.0         8.0           3.3         A         T491A335(1)010A(2)         0.5         6.0         6.0           3.3         S         T491S335(1)010A(2)         0.5         6.0         15.0           #3.3         R         T491B475(1)010A(2)         0.5         6.0         3.5           4.7         A         T491B475(1)010A(2)         0.5         6.0         3.5           4.7         A         T491B475(1)010A(2)         0.5         6.0         15.0           #4.7         S         T491B475(1)010A(2)         0.5         6.0         15.0           #4.7         R         T491B6475(1)010A(2)         0.5         6.0         15.0           #4.7         R         T491B6475(1)010A(2)         0.5         6.0         15.0           #4.7         R         T491B685(1)010A(2)         0.7         6.0         3.5           6.8         B         T491B685(1)010A(2)         0.7         6.0         3.5           6.8         A         T491B685(1)010A(2)         0.7         6.0         <	1.5					8.0
2.2         A         T491A225(1)010A(2)         0.5         6.0         8.0           3.3         A         T491A335(1)010A(2)         0.5         6.0         6.0           3.3         S         T491R335(1)010A(2)         0.5         6.0         15.0           #3.3         R         T491R335(1)010A(2)         0.3         8.0         15.0           4.7         B         T491R475(1)010A(2)         0.5         6.0         3.5           4.7         A         T491R475(1)010A(2)         0.5         6.0         5.0           #4.7         S         T491S475(1)010A(2)         0.5         6.0         15.0           #4.7         R         T491R475(1)010A(2)         0.5         8.0         10.0           6.8         B         T491B685(1)010A(2)         0.7         6.0         3.5           6.8         A         T491B685(1)010A(2)         0.7         6.0         3.5           6.8         T         T491T685(1)010A(2)         0.7         6.0         3.5           6.8         T         T491S685(1)010A(2)         0.7         6.0         5.0           #6.8         S         T491S685(1)010A(2)         0.7         10.0						
3.3         A         T491A335(1)010A(2)         0.5         6.0         6.0           3.3         S         T491S335(1)010A(2)         0.5         6.0         15.0           4.7         B         T491B335(1)010A(2)         0.3         8.0         15.0           4.7         A         T491B475(1)010A(2)         0.5         6.0         3.5           4.7         A         T491A475(1)010A(2)         0.5         6.0         5.0           #4.7         S         T491S475(1)010A(2)         0.5         6.0         15.0           #4.7         R         T491B685(1)010A(2)         0.5         8.0         10.0           6.8         B         T491B685(1)010A(2)         0.7         6.0         3.5           6.8         A         T491A685(1)010A(2)         0.7         6.0         4.0           6.8         T         T491T68S(1)010A(2)         0.7         6.0         5.0           #6.8         S         T491S685(1)010A(2)         0.7         6.0         5.0           10.0         C         T491C106(1)010A(2)         1.0         6.0         1.8           10.0         B         T491B106(1)010A(2)         1.0         6.0						
3.3         S         T491S335(1)010A(2)         0.5         6.0         15.0           #3.3         R         T491B475(1)010A(2)         0.3         8.0         15.0           4.7         B         T491B475(1)010A(2)         0.5         6.0         3.5           4.7         A         T491B475(1)010A(2)         0.5         6.0         5.0           #4.7         S         T491S475(1)010A(2)         0.5         6.0         15.0           #4.7         R         T491B475(1)010A(2)         0.5         8.0         10.0           6.8         B         T491B685(1)010A(2)         0.7         6.0         3.5           6.8         A         T491B685(1)010A(2)         0.7         6.0         4.0           6.8         T         T491T685(1)010A(2)         0.7         6.0         5.0           #6.8         S         T491S685(1)010A(2)         0.7         6.0         5.0           10.0         C         T491C106(1)010A(2)         0.7         10.0         15.0           10.0         B         T491B106(1)010A(2)         1.0         6.0         3.5           #10.0         B         T491B106(1)010A(2)         1.0         6.0						
#3.3 R T491R335(1)010A(2) 0.3 8.0 15.0  4.7 B T491B475(1)010A(2) 0.5 6.0 3.5  4.7 A T491A475(1)010A(2) 0.5 6.0 5.0  #4.7 S T491S475(1)010A(2) 0.5 6.0 15.0  #4.7 R T491S475(1)010A(2) 0.5 8.0 10.0  6.8 T T491B685(1)010A(2) 0.7 6.0 3.5  6.8 A T491A685(1)010A(2) 0.7 6.0 3.5  6.8 T T491S685(1)010A(2) 0.7 6.0 5.0  #6.8 S T4915685(1)010A(2) 0.7 6.0 5.0  #6.8 S T4915685(1)010A(2) 0.7 10.0 15.0  #0.0 C T491C106(1)010A(2) 1.0 6.0 3.5  #10.0 B T491B106(1)010A(2) 1.0 6.0 3.5  #10.0 B T491B106(1)010A(2) 1.0 6.0 3.5  #10.0 T T491T106(1)010A(2) 1.0 6.0 3.5  #10.0 S T491S106(1)010A(2) 1.0 6.0 3.5  #10.0 S T491S106(1)010A(2) 1.0 6.0 3.5  #10.0 S T491S106(1)010A(2) 1.0 6.0 1.8  #15.0 C T491C156(1)010A(2) 1.5 6.0 1.8  #15.0 B T491B156(1)010A(2) 1.5 6.0 2.8  #15.0 A T491A156(1)010A(2) 1.5 6.0 2.8						
4.7         B         T491B475(1)010A(2)         0.5         6.0         3.5           4.7         A         T491A475(1)010A(2)         0.5         6.0         5.0           #4.7         S         T491S475(1)010A(2)         0.5         6.0         15.0           #4.7         R         T491B685(1)010A(2)         0.7         6.0         3.5           6.8         B         T491B685(1)010A(2)         0.7         6.0         4.0           6.8         T         T491T685(1)010A(2)         0.7         6.0         4.0           6.8         T         T491T685(1)010A(2)         0.7         10.0         5.0           #6.8         S         T491S685(1)010A(2)         0.7         10.0         5.0           10.0         C         T491C106(1)010A(2)         1.0         6.0         1.8           10.0         B         T491B106(1)010A(2)         1.0         6.0         3.5           #10.0         A         T491A106(1)010A(2)         1.0         6.0         4.0           #10.0         T         T491T106(1)010A(2)         1.0         6.0         4.0           #10.0         S         T491S106(1)010A(2)         1.0         6.0						
4.7         A         T491A475(1)010A(2)         0.5         6.0         5.0           #4.7         S         T491S475(1)010A(2)         0.5         6.0         15.0           #4.7         R         T491B685(1)010A(2)         0.5         8.0         10.0           6.8         B         T491B685(1)010A(2)         0.7         6.0         3.5           6.8         A         T4917685(1)010A(2)         0.7         6.0         4.0           6.8         T         T4917685(1)010A(2)         0.7         6.0         5.0           #6.8         S         T491S685(1)010A(2)         0.7         10.0         15.0           10.0         C         T491C106(1)010A(2)         1.0         6.0         1.8           10.0         B         T491B106(1)010A(2)         1.0         6.0         3.5           #10.0         B         T491B106(1)010A(2)         1.0         6.0         4.0           #10.0         T         T491T106(1)010A(2)         1.0         6.0         4.0           #10.0         S         T491S106(1)010A(2)         1.0         6.0         5.0           #10.0         S         T491S106(1)010A(2)         1.5         6.0						
#4.7 S T491S47S(1)010A(2) 0.5 6.0 15.0 #4.7 R T491R475(1)010A(2) 0.5 8.0 10.0 6.8 B T491B685(1)010A(2) 0.7 6.0 3.5 6.8 A T491A685(1)010A(2) 0.7 6.0 4.0 6.8 T T4917685(1)010A(2) 0.7 6.0 5.0 #6.8 S T4915685(1)010A(2) 0.7 6.0 5.0 #6.8 S T4915685(1)010A(2) 0.7 10.0 15.0 10.0 C T491C106(1)010A(2) 1.0 6.0 3.5 #10.0 B T491B106(1)010A(2) 1.0 6.0 3.5 #10.0 A T491A106(1)010A(2) 1.0 6.0 3.5 #10.0 S T491S106(1)010A(2) 1.0 6.0 5.0 #10.0 S T491S106(1)010A(2) 1.0 6.0 5.0 15.0 T491S106(1)010A(2) 1.0 6.0 5.0 15.0 C T491C156(1)010A(2) 1.5 6.0 1.8 15.0 C T491C156(1)010A(2) 1.5 6.0 1.8 15.0 B T491B156(1)010A(2) 1.5 6.0 2.8 #15.0 A T491A156(1)010A(2) 1.5 6.0 2.8						
#4.7 R T491R475(1)010A(2) 0.5 8.0 10.0 6.8 B T491B685(1)010A(2) 0.7 6.0 3.5 6.8 A T491A685(1)010A(2) 0.7 6.0 4.0 6.8 T T491A685(1)010A(2) 0.7 6.0 5.0 #6.8 S T491S685(1)010A(2) 0.7 10.0 15.0 10.0 C T491C106(1)010A(2) 1.0 6.0 3.5 10.0 B T491B106(1)010A(2) 1.0 6.0 3.5 #10.0 A T491A106(1)010A(2) 1.0 6.0 3.5 #10.0 A T491A106(1)010A(2) 1.0 6.0 3.5 #10.0 S T491S106(1)010A(2) 1.0 6.0 5.0 #10.0 S T491S106(1)010A(2) 1.0 6.0 5.0 #10.0 S T491S106(1)010A(2) 1.5 6.0 1.8 15.0 C T491C156(1)010A(2) 1.5 6.0 1.8 15.0 B T491B156(1)010A(2) 1.5 6.0 2.8 #15.0 A T491A156(1)010A(2) 1.5 6.0 0.8	#4.7					
6.8         B         T491B685(1)010A(2)         0.7         6.0         3.5           6.8         A         T491A685(1)010A(2)         0.7         6.0         4.0           6.8         T         T491T685(1)010A(2)         0.7         6.0         5.0           #6.8         S         T491S685(1)010A(2)         0.7         10.0         15.0           10.0         C         T491E106(1)010A(2)         1.0         6.0         1.8           10.0         B         T491B106(1)010A(2)         1.0         6.0         3.5           #10.0         A         T491A106(1)010A(2)         1.0         6.0         4.0           #10.0         T         T491T106(1)010A(2)         1.0         6.0         5.0           #10.0         S         T491S106(1)010A(2)         1.0         10.0         15.0           15.0         C         T491C156(1)010A(2)         1.5         6.0         1.8           15.0         U         T491B156(1)010A(2)         1.5         6.0         1.8           15.0         B         T491B156(1)010A(2)         1.5         6.0         2.8           #15.0         A         T491A156(1)010A(2)         1.5         6.0						
6.8         A         T491A685(1)010A(2)         0.7         6.0         4.0           6.8         T         T491T685(1)010A(2)         0.7         6.0         5.0           #6.8         S         T491S685(1)010A(2)         0.7         10.0         15.0           10.0         C         T491C106(1)010A(2)         1.0         6.0         1.8           10.0         B         T491B106(1)010A(2)         1.0         6.0         3.5           #10.0         A         T491A106(1)010A(2)         1.0         6.0         4.0           #10.0         T         T491T106(1)010A(2)         1.0         6.0         5.0           #10.0         S         T491S106(1)010A(2)         1.0         10.0         15.0           15.0         C         T491C156(1)010A(2)         1.5         6.0         1.8           15.0         U         T491B105(1)010A(2)         1.5         6.0         1.8           15.0         B         T491B105(1)010A(2)         1.5         6.0         2.8           #15.0         A         T491A156(1)010A(2)         1.5         8.0         6.0						
6.8 T T491T685(1)010A(2) 0.7 6.0 5.0   #6.8 S T491S685(1)010A(2) 0.7 10.0 15.0    10.0 C T491C106(1)010A(2) 1.0 6.0 1.8    10.0 B T491B106(1)010A(2) 1.0 6.0 3.5    #10.0 A T491A106(1)010A(2) 1.0 6.0 4.0    #10.0 T T491T106(1)010A(2) 1.0 6.0 5.0    #10.0 S T491S106(1)010A(2) 1.0 10.0 15.0    15.0 C T491C156(1)010A(2) 1.5 6.0 1.8    15.0 U T491U156(1)010A(2) 1.5 6.0 1.8    15.0 B T491B156(1)010A(2) 1.5 6.0 2.8    #15.0 A T491A156(1)010A(2) 1.5 8.0 6.0						
#6.8         S         T491S685(1)010A(2)         0.7         10.0         15.0           10.0         C         T491C106(1)010A(2)         1.0         6.0         1.8           10.0         B         T491B106(1)010A(2)         1.0         6.0         3.5           #10.0         A         T491A106(1)010A(2)         1.0         6.0         4.0           #10.0         T         T491T106(1)010A(2)         1.0         6.0         5.0           #10.0         S         T491S106(1)010A(2)         1.0         10.0         15.0           15.0         C         T491C156(1)010A(2)         1.5         6.0         1.8           15.0         B         T491B156(1)010A(2)         1.5         6.0         1.8           15.0         B         T491B156(1)010A(2)         1.5         6.0         2.8           #15.0         A         T491A156(1)010A(2)         1.5         8.0         6.0						
10.0         C         T491C106(1)010A(2)         1.0         6.0         1.8           10.0         B         T491B106(1)010A(2)         1.0         6.0         3.5           #10.0         A         T491A106(1)010A(2)         1.0         6.0         4.0           #10.0         T         T491T106(1)010A(2)         1.0         6.0         5.0           #10.0         S         T491S106(1)010A(2)         1.0         10.0         15.0           15.0         C         T491C156(1)010A(2)         1.5         6.0         1.8           15.0         U         T491U156(1)010A(2)         1.5         6.0         1.8           15.0         B         T491B156(1)010A(2)         1.5         6.0         2.8           #15.0         A         T491A156(1)010A(2)         1.5         8.0         6.0						
10.0         B         T491B106(1)010A(2)         1.0         6.0         3.5           #10.0         A         T491A106(1)010A(2)         1.0         6.0         4.0           #10.0         T         T491T106(1)010A(2)         1.0         6.0         5.0           #10.0         S         T491S106(1)010A(2)         1.0         10.0         15.0           15.0         C         T491C156(1)010A(2)         1.5         6.0         1.8           15.0         U         T491U156(1)010A(2)         1.5         6.0         1.8           15.0         B         T491B156(1)010A(2)         1.5         6.0         2.8           #15.0         A         T491A156(1)010A(2)         1.5         8.0         6.0						
#10.0 A T491A106(1)010A(2) 1.0 6.0 4.0 #10.0 T T491T106(1)010A(2) 1.0 6.0 5.0 #10.0 S T491S106(1)010A(2) 1.0 10.0 15.0 15.0 C T491C156(1)010A(2) 1.5 6.0 1.8 15.0 U T491U156(1)010A(2) 1.5 6.0 1.8 15.0 B T491B156(1)010A(2) 1.5 6.0 2.8 #15.0 A T491A156(1)010A(2) 1.5 8.0 6.0						
#10.0 T T491T106(1)010A(2) 1.0 6.0 5.0 #10.0 S T491S106(1)010A(2) 1.0 10.0 15.0 15.0 C T491C156(1)010A(2) 1.5 6.0 1.8 15.0 U T491U156(1)010A(2) 1.5 6.0 1.8 15.0 B T491B156(1)010A(2) 1.5 6.0 2.8 #15.0 A T491A156(1)010A(2) 1.5 8.0 6.0						
#10.0 S T491S106(1)010A(2) 1.0 10.0 15.0 15.0 C T491C156(1)010A(2) 1.5 6.0 1.8 15.0 U T491U156(1)010A(2) 1.5 6.0 1.8 15.0 B T491B156(1)010A(2) 1.5 6.0 2.8 #15.0 A T491A156(1)010A(2) 1.5 8.0 6.0		Т				
15.0         C         T491C156(1)010A(2)         1.5         6.0         1.8           15.0         U         T491U156(1)010A(2)         1.5         6.0         1.8           15.0         B         T491B156(1)010A(2)         1.5         6.0         2.8           #15.0         A         T491A156(1)010A(2)         1.5         8.0         6.0						
15.0     U     T491U156(1)010A(2)     1.5     6.0     1.8       15.0     B     T491B156(1)010A(2)     1.5     6.0     2.8       #15.0     A     T491A156(1)010A(2)     1.5     8.0     6.0						
15.0 B T491B156(1)010A(2) 1.5 6.0 2.8 #15.0 A T491A156(1)010A(2) 1.5 8.0 6.0						
#15.0 A T491A156(1)010A(2) 1.5 8.0 6.0						
		Α				
	#15.0	T	T491T156(1)010A(2)	1.5	8.0	5.0

To complete KEMET Part Number, insert M for ±20% tolerance or K for ±10% tolerance.
 To complete KEMET Part Number, insert T, H, G lead material designation as show \*Extended Values lead material designation as shown on page 15.

\*\*6 Volt product equivalent to 6.3 volt product. #Maximum Capacitance Change @ 125°C=+15%. †Maximum Capacitance Change @ 125°C=+20%.

Higher voltage ratings and tighter tolerance product may be substituted within the same size at KEMET's option. Voltage substitutions will be marked with the higher voltage rating.



# **SOLID TANTALUM CHIP CAPACITORS**

**T491 SERIES—Precision Molded Chip** 

## **T491 RATINGS & PART NUMBER REFERENCE**

Capacitation   Capacitation   Part Number			1491 N	MIIIN	<u> </u>	1 / 1
Case   Fart Number   Leakage   (a) + 25°C   120 Hz   Max				DC	DF %	ESR Ω
	Capaci-	Casa	KEMET			
10   Volt Rating at +85°C (7 Volt Rating at +125°C)	tance			_		
10   Volt Rating at +85°C (7   Volt Rating at +125°C)	uF	Size	Part Number	•	-	
22.0	P			Max	Max	Max
22.0		10	Volt Rating at +85°C (7 Vol	t Rating at +1	25°C)	
### ### ### ### ### ### ### ### ### ##	22.0					1.8
#22.0 B T 491B226(1)010A(2) 2.2 6.0 2.4   #22.0 T T 491T226(1)010A(2) 2.2 10.0 6.0   #22.0 T T 491T226(1)010A(2) 2.2 10.0 6.0   #23.3 D T 491D336(1)010A(2) 3.3 6.0 1.8   33.0 V T491V336(1)010A(2) 3.3 6.0 1.8   33.0 V T491V336(1)010A(2) 3.3 6.0 1.8   #33.0 U T491U336(1)010A(2) 3.3 6.0 1.8   #33.0 B T491B336(1)010A(2) 3.3 6.0 1.8   #33.0 B T491B336(1)010A(2) 3.3 6.0 1.8   #33.0 A T491A336(1)010A(2) 3.3 5.0 6.0 1.8   #33.0 A T491A336(1)010A(2) 3.3 15.0 6.0   47.0 D T491D476(1)010A(2) 4.7 6.0 0.8   #47.0 V T491V476(1)010A(2) 4.7 6.0 0.7   #47.0 U T491U476(1)010A(2) 4.7 6.0 0.7   #47.0 U T491U476(1)010A(2) 4.7 6.0 1.2   #47.0 U T491U476(1)010A(2) 4.7 8.0 1.0   68.0 D T491D886(1)010A(2) 6.8 6.0 0.8   68.0 D T491D886(1)010A(2) 6.8 6.0 0.8   68.0 D T491D886(1)010A(2) 6.8 6.0 1.2   #88.0 U T491U886(1)010A(2) 6.8 10.0 3.0   100.0 D T491D107(1)010A(2) 10.0 8.0 1.2   1100.0 C T491C107(1)010A(2) 10.0 8.0 1.2   1100.0 V T491V107(1)010A(2) 10.0 8.0 0.7   1150.0 X T491V157(1)010A(2) 15.0 8.0 0.7   1150.0 X T491V157(1)010A(2) 15.0 8.0 0.7   1150.0 V T491V157(1)010A(2) 15.0 8.0 0.5   10.0 0.5   10.0 0.5   1						
##22.0 A T 4914228M010A(2)						
##22.0 T T 4917226(1)010Å(2) 2.2 12.0 8.0 0.8 33.0 D T4919386(1)010Å(2) 3.3 6.0 0.7 33.0 C T491V336(1)010Å(2) 3.3 6.0 1.6 1.8 33.0 U T491U336(1)010Å(2) 3.3 6.0 1.8 1.8 1.3 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2						
33.0						
33.0	#22.0				12.0	8.0
33.0   C   T491C336(1)010A(2)   3.3   6.0   1.6     #33.0   B   T491B336(1)010A(2)   3.3   6.0   1.8     #33.0   T   T491T336(1)010A(2)   3.3   6.0   1.8     #33.0   T   T491T336(1)010A(2)   3.3   6.0   1.8     #33.0   A   T491A336(1)010A(2)   3.3   15.0   6.0     #47.0   D   T491D476(1)010A(2)   4.7   6.0   0.8     47.0   V   T491V476(1)010A(2)   4.7   6.0   0.7     #47.0   C   T491C476(1)010A(2)   4.7   6.0   0.7     #47.0   C   T491C476(1)010A(2)   4.7   6.0   0.7     #47.0   D   T491B476(1)010A(2)   4.7   6.0   0.7     #47.0   D   T491B476(1)010A(2)   4.7   8.0   1.0     #47.0   B   T491B476(1)010A(2)   4.7   8.0   1.0     #47.0   B   T491B476(1)010A(2)   4.7   8.0   1.0     68.0   D   T491D686(1)010A(2)   6.8   6.0   0.7     #68.0   C   T491C686(1)010A(2)   6.8   6.0   0.7     #68.0   C   T491C686(1)010A(2)   6.8   6.0   0.7     #68.0   D   T491D686(1)010A(2)   6.8   10.0   1.8     #68.0   B   T491B686M010A(2)   6.8   10.0   3.0     100.0   D   T491D107(1)010A(2)   10.0   8.0   0.7     150.0   X   T491X157(1)010A(2)   10.0   8.0   0.7     150.0   X   T491X157(1)010A(2)   10.0   8.0   0.7     150.0   X   T491X157(1)010A(2)   15.0   8.0   0.7     150.0   X   T491X157(1)010A(2)   15.0   8.0   0.7     150.0   X   T491X27(1)010A(2)   15.0   8.0   0.7     #150.0   C   T491C167(1)010A(2)   15.0   8.0   0.7     #220.0   X   T491X227(1)010A(2)   22.0   8.0   0.5     #330.0   X   T491X337(1)010A(2)   33.0   10.0   0.5     #330.0   X   T491X337(1)010A(2)   33.0   10.0   0.5     #470.0   X   T491X477M010A(2)   47.0   10.0   0.5     #470.0   X   T491X477M010A(2)   47.0   10.0   0.5     #470.0   X   T491X477M010A(2)   47.0   10.0   0.5     #470.0   C   T491C475(1)016A(2)   0.5   6.0   6.0     4.7   C   T491C475(1)016A(2)   0.5   6.0   6.0     4.7   C   T491C475(1)016A(2)   0.5   6.0   6.0     4.7   C   T491C475(1)016A(2)   0.5   6.0   6.0     5.0   T491B33	33.0	D	T491D336(1)010A(2)	3.3	6.0	0.8
#33.0 U T491U336(1)010A(2) 3.3 6.0 1.8 #33.0 B T491B336(1)010A(2) 3.3 6.0 1.8 #33.0 A T491A336(1)010A(2) 3.3 15.0 6.0 47.0 D T491D476(1)010A(2) 4.7 6.0 0.8 #47.0 V T491V476(1)010A(2) 4.7 6.0 0.7 #47.0 U T491V476(1)010A(2) 4.7 6.0 1.2 #47.0 U T491U476(1)010A(2) 4.7 6.0 0.8 #88.0 D T491D886(1)010A(2) 6.8 6.0 0.7 #88.0 C T491C866(1)010A(2) 6.8 6.0 0.7 #88.0 U T491U886(1)010A(2) 6.8 6.0 0.7 #88.0 U T491U886(1)010A(2) 6.8 6.0 0.7 #88.0 U T491U886(1)010A(2) 6.8 10.0 3.0 100.0 D T491D107(1)010A(2) 10.0 8.0 0.7 #100.0 C T491C107(1)010A(2) 10.0 8.0 0.7 #100.0 C T491C107(1)010A(2) 10.0 8.0 0.7 #150.0 X T491V157(1)010A(2) 15.0 8.0 0.7 #150.0 D T491D157(1)010A(2) 15.0 8.0 0.7 #150.0 D T491D157(1)010A(2) 15.0 8.0 0.7 #150.0 V T491V227(1)010A(2) 15.0 8.0 0.7 #150.0 D T491D157(1)010A(2) 15.0 8.0 0.7 #150.0 D T491D227(1)010A(2) 15.0 8.0 0.5 #220.0 D T491D227(1)010A(2) 22.0 8.0 0.5 #222.0 D T491D227(1)010A(2) 33.0 10.0 0.5 #333.0 D T491S37/M010A(2) 33.0 10.0 0.5 #333.0 D T491B337(1)010A(2) 33.0 10.0 0.5 #333.0 E T491E337(1)010A(2) 33.0 10.0 0.5 #333.0 E T491E337(1)010A(2) 33.0 10.0 0.5 #333.0 E T491E337(1)010A(2) 33.0 10.0 0.5 #333.0 B T491B337(1)016A(2) 0.5 6.0 8.0 4.7 C T491C476(1)016A(2) 0.5 6.0 8.0 4.7 T T491T475(1)016A(2) 0.5 6.0 8.0 4.0 T	33.0	V	T491V336(1)010A(2)	3.3	6.0	0.7
#33.0 B T491B336(1)010A(2) 3.3 6.0 1.8 #33.0 A T491A336(1)010A(2) 3.3 15.0 6.0  #47.0 D T491D476(1)010A(2) 4.7 6.0 0.8 #47.0 V T491V476(1)010A(2) 4.7 6.0 0.7 #47.0 C T491C476(1)010A(2) 4.7 6.0 0.7 #47.0 U T491V476(1)010A(2) 4.7 6.0 1.2 #47.0 U T491V476(1)010A(2) 4.7 6.0 1.2 #47.0 B T491C476(1)010A(2) 4.7 6.0 1.2 #47.0 B T491B476(1)010A(2) 4.7 8.0 1.0  68.0 D T491B686(1)010A(2) 6.8 6.0 0.8 88.0 V T491V686(1)010A(2) 6.8 6.0 0.7 #68.0 U T491U686(1)010A(2) 6.8 6.0 0.7 #68.0 U T491U686(1)010A(2) 6.8 6.0 0.7 #68.0 B T491B686(1)010A(2) 6.8 10.0 1.2 #68.0 D T491D686(1)010A(2) 6.8 10.0 1.2 #68.0 D T491D686(1)010A(2) 6.8 10.0 1.2 #68.0 D T491D686(1)010A(2) 6.8 0.0 0.7 #100.0 D T491D7(1)010A(2) 10.0 8.0 0.7 #100.0 D T491D107(1)010A(2) 10.0 8.0 0.7 #150.0 D T491D17(1)010A(2) 10.0 8.0 0.7 #150.0 D T491D17(1)010A(2) 15.0 8.0 0.7 #150.0 D T491D17(1)010A(2) 15.0 8.0 0.7 #150.0 V T491V157(1)010A(2) 15.0 8.0 0.7 #150.0 V T491V157(1)010A(2) 15.0 8.0 0.7 #150.0 V T491V227(1)010A(2) 22.0 8.0 0.5 #220.0 D T491D227(1)010A(2) 22.0 8.0 0.5 #220.0 D T491D337M010A(2) 22.0 8.0 0.5 #2330.0 D T491S337M010A(2) 33.0 10.0 0.5 #3330.0 X T491X337(1)010A(2) 33.0 10.0 0.5 #3330.0 X T491X337(1)010A(2) 33.0 10.0 0.5 #470.0 E T491E437(1)010A(2) 0.5 6.0 8.0  4.7 C T491C47(1)010A(2) 0.5 6.0 8.0  4.7 T T491A355(1)016A(2) 0.5 6.0 8.0  4.7 T T491A355(1)016A(2) 0.5 6.0 8.0  4.7 C T491C45(1)016A(2) 0.5 6.0 6.0 6.0  4.7 T T491A355(1)016A(2) 0.5 6.0 3.5  4.7 T	33.0	С	T491C336(1)010A(2)	3.3	6.0	1.6
#33.0 B T491B336(1)010A(2) 3.3 6.0 1.8 #33.0 A T491A336(1)010A(2) 3.3 15.0 6.0  #47.0 D T491D476(1)010A(2) 4.7 6.0 0.8 #47.0 V T491V476(1)010A(2) 4.7 6.0 0.7 #47.0 C T491C476(1)010A(2) 4.7 6.0 0.7 #47.0 U T491V476(1)010A(2) 4.7 6.0 1.2 #47.0 U T491V476(1)010A(2) 4.7 6.0 1.2 #47.0 B T491C476(1)010A(2) 4.7 6.0 1.2 #47.0 B T491B476(1)010A(2) 4.7 8.0 1.0  68.0 D T491B686(1)010A(2) 6.8 6.0 0.8 88.0 V T491V686(1)010A(2) 6.8 6.0 0.7 #68.0 U T491U686(1)010A(2) 6.8 6.0 0.7 #68.0 U T491U686(1)010A(2) 6.8 6.0 0.7 #68.0 B T491B686(1)010A(2) 6.8 10.0 1.2 #68.0 D T491D686(1)010A(2) 6.8 10.0 1.2 #68.0 D T491D686(1)010A(2) 6.8 10.0 1.2 #68.0 D T491D686(1)010A(2) 6.8 0.0 0.7 #100.0 D T491D7(1)010A(2) 10.0 8.0 0.7 #100.0 D T491D107(1)010A(2) 10.0 8.0 0.7 #150.0 D T491D17(1)010A(2) 10.0 8.0 0.7 #150.0 D T491D17(1)010A(2) 15.0 8.0 0.7 #150.0 D T491D17(1)010A(2) 15.0 8.0 0.7 #150.0 V T491V157(1)010A(2) 15.0 8.0 0.7 #150.0 V T491V157(1)010A(2) 15.0 8.0 0.7 #150.0 V T491V227(1)010A(2) 22.0 8.0 0.5 #220.0 D T491D227(1)010A(2) 22.0 8.0 0.5 #220.0 D T491D337M010A(2) 22.0 8.0 0.5 #2330.0 D T491S337M010A(2) 33.0 10.0 0.5 #3330.0 X T491X337(1)010A(2) 33.0 10.0 0.5 #3330.0 X T491X337(1)010A(2) 33.0 10.0 0.5 #470.0 E T491E437(1)010A(2) 0.5 6.0 8.0  4.7 C T491C47(1)010A(2) 0.5 6.0 8.0  4.7 T T491A355(1)016A(2) 0.5 6.0 8.0  4.7 T T491A355(1)016A(2) 0.5 6.0 8.0  4.7 C T491C45(1)016A(2) 0.5 6.0 6.0 6.0  4.7 T T491A355(1)016A(2) 0.5 6.0 3.5  4.7 T	#33.0	U	T491U336(1)010A(2)	3.3	6.0	1.8
## ## ## ## ## ## ## ## ## ## ## ## ##						
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47.0	#22 A					
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68.0   D	#47.0	U	T491U476(1)010A(2)	4.7	10.0	2.2
68.0         V         T491V686(1)010A(2)         6.8         6.0         0.7           #68.0         U         T491C686(1)010A(2)         6.8         6.0         1.2           #68.0         B         T491B686(1)010A(2)         6.8         10.0         3.0           100.0         D         T491B107(1)010A(2)         10.0         8.0         0.7           #100.0         C         T491C107(1)010A(2)         10.0         8.0         0.7           #100.0         V         T491V157(1)010A(2)         15.0         8.0         0.7           #150.0         D         T491C157(1)010A(2)         15.0         8.0         0.7           #150.0         D         T491C157(1)010A(2)         15.0         8.0         0.7           #150.0         V         T491V157(1)010A(2)         15.0         8.0         0.7           #220.0         X         T491V157(1)010A(2)         22.0         8.0         0.5           #220.0         D         T491D237(1)010A(2)         22.0         8.0         0.5           #220.0         D         T491D337M010A(2)         33.0         10.0         0.5           #330.0         D         T491E337(1)010A(2)         33.0 <td>#47.0</td> <td>В</td> <td>T491B476(1)010A(2)</td> <td>4.7</td> <td>8.0</td> <td>1.0</td>	#47.0	В	T491B476(1)010A(2)	4.7	8.0	1.0
#68.0		D		6.8		
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#470.0 X T491X477M010A(2) 47.0 10.0 0.2   #470.0 E T491E477M010A(2) 47.0 12.0 0.5    16 Volt Rating at +85°C (10 Volt Rating at +125°C)    1.0 A T491A105(1)016A(2) 0.5 4.0 10.0    1.5 A T491A125(1)016A(2) 0.5 6.0 8.0    2.2 A T491A25(1)016A(2) 0.5 6.0 15.0    2.2 S T491S225(1)016A(2) 0.5 6.0 15.0    #2.2 R T491R225(1)016A(2) 0.5 6.0 3.5    3.3 B T491B335(1)016A(2) 0.5 6.0 3.5    3.3 A T491A335(1)016A(2) 0.5 6.0 3.5    4.7 C T491C475(1)016A(2) 0.5 6.0 3.5    4.7 C T491C475(1)016A(2) 0.5 6.0 5.0    4.7 B T491B475(1)016A(2) 0.5 6.0 3.5    4.7 T T491A475(1)016A(2) 0.8 6.0 3.5    4.7 T T491A475(1)016A(2) 0.8 6.0 3.5    6.8 C T491C685(1)016A(2) 0.8 6.0 5.0    6.8 C T491C685(1)016A(2) 1.1 6.0 1.9    6.8 B T491B685(1)016A(2) 1.1 6.0 1.9    6.8 A T491A685(1)016A(2) 1.1 6.0 3.5    #6.8 A T491A685(1)016A(2) 1.1 6.0 3.5    #10.0 U T491U106(1)016A(2) 1.6 6.0 1.8    10.0 B T491B106(1)016A(2) 1.6 6.0 1.8    10.0 B T491B106(1)016A(2) 1.6 6.0 2.8    #10.0 B T491B106(1)016A(2) 1.6 6.0 2.8    #10.0 T T491T106(1)016A(2) 1.6 6.0 1.8    10.0 D T491U106(1)016A(2) 1.6 6.0 2.8    #10.0 B T491B106(1)016A(2) 1.6 6.0 1.8    10.0 C T491C156(1)016A(2) 1.6 6.0 1.8    10.0 B T491B106(1)016A(2) 1.6 6.0 0 1.8    10.0 B T491B106(1)016A(2) 1.6 6.0 0 1.8    15.0 C T491C156(1)016A(2) 1.6 8.0 7.0    #15.0 C T491C156(1)016A(2) 2.4 6.0 1.8    15.0 B T491B156(1)016A(2) 2.4 6.0 1.8    15.0 D T491D26(1)016A(2) 3.6 6.0 0.8    22.0 D T491D26(1)016A(2) 3.6 6.0 0.8    22.0 C T491C26(1)016A(2) 3.6 6.0 0.8    22.0 D T491D36(1)016A(2) 3.6 6.0 0.8    #22.0 U T491U36(1)016A(2) 3.6 6.0 0.8    #33.0 C T491C36(1)016A(2) 5.3 6.0 0.8    #33.0 C T491C36(1)016A(2) 5.3 6.0 0.0    #47.0 U T491U36(1)016A(2) 7.5 6.0 0.7    #47.0 C T491C46(1)016A(2) 7.5 6.0 0.7    #47.0 C T491C66(1)016A(2) 7.5 6.0 0.7    #47.0 C T491C66(1)016A(2) 7.5 6.0 0.7    #47.0 C T491C66(1)016A(2) 10.9 6.0 0.7    #47.0 C T491C86(1)016A(2) 10.9 6.0 0.7    #48.0 D T491D86(1)016A(2) 10.9 6.0 0.7    #48.0 D T491D86(1)016A(2) 10.9 6.0 0.7    #48.0 D T491D86(1)016A(2) 10.9 6.0 0.7    #491D86(1)016A(2) 10.9 6	#330.0	X	T491X337(1)010A(2)	33.0	10.0	0.5
#470.0 X T491X477M010A(2) 47.0 10.0 0.2   #470.0 E T491E477M010A(2) 47.0 12.0 0.5   16 Volt Rating at +85°C (10 Volt Rating at +125°C)    1.0 A T491A105(1)016A(2) 0.5 4.0 10.0   1.5 A T491A155(1)016A(2) 0.5 6.0 8.0   2.2 A T491A225(1)016A(2) 0.5 6.0 15.0   2.2 S T491S225(1)016A(2) 0.5 6.0 15.0   #2.2 R T491R225(1)016A(2) 0.5 6.0 3.5   3.3 B T491B335(1)016A(2) 0.5 6.0 3.5   3.3 A T491A335(1)016A(2) 0.5 6.0 3.5   4.7 C T491C475(1)016A(2) 0.5 6.0 3.5   4.7 C T491C475(1)016A(2) 0.5 6.0 5.0   4.7 B T491B475(1)016A(2) 0.5 6.0 5.0   4.7 T T491T475(1)016A(2) 0.8 6.0 3.5   4.7 T T491T475(1)016A(2) 0.8 6.0 5.0   6.8 C T491C685(1)016A(2) 1.1 6.0 1.9   6.8 B T491B685(1)016A(2) 1.1 6.0 3.5   #6.8 A T491A685(1)016A(2) 1.1 6.0 3.5   #6.8 A T491C685(1)016A(2) 1.1 6.0 3.5   #10.0 U T491U106(1)016A(2) 1.6 6.0 1.8   10.0 U T491U106(1)016A(2) 1.6 6.0 1.8   10.0 B T491B106(1)016A(2) 1.6 6.0 1.8   10.0 U T491U106(1)016A(2) 1.6 6.0 1.8   10.0 B T491B106(1)016A(2) 1.6 6.0 1.8   10.0 T T491T106(1)016A(2) 2.4 6.0 1.8   15.0 C T491C156(1)016A(2) 2.4 6.0 1.8   15.0 U T491U156(1)016A(2) 2.4 6.0 1.8   15.0 U T491U156(1)016A(2) 2.4 6.0 1.8   15.0 U T491U156(1)016A(2) 3.6 6.0 0.5   22.0 D T491D226(1)016A(2) 3.6 6.0 0.8   22.0 C T491C26(1)016A(2) 3.6 6.0 0.8   22.0 D T491D326(1)016A(2) 5.3 6.0 0.8   22.0 C T491C336(1)016A(2) 5.3 6.0 0.8   22.0 C T491C336(1)016A(2) 5.3 6.0 0.2   33.0 U T491U336(1)016A(2) 5.3 6.0 0.0   47.0 U T491U36(1)016A(2) 5.3 6.0 0.0   47.0 U T491U36(1)016A(2) 5.3 6.0 0.0   47.0 U T491U36(1)016A(2) 5.3 6.0 0.0 0.7   47.0 U T491U36(1)016A(2) 7.5 6.0 0.7   47.0 U T491U36(1)016A(2) 7.5 6.0 0.7   47.0 C T491C476(1)016A(2) 7.5 6.0 0.7   47.0 C T491C66(1)016A(2) 7.5 6.0 0.7   47.0 C T491C66(1)016A(2) 10.9 6.0 0.7   47.	#330.0	E	T491E337(1)010A(2)	33.0	10.0	0.5
#470.0 E T491E477M010A(2) 47.0 12.0 0.5  16 Volt Rating at +85°C (10 Volt Rating at +125°C)  1.0 A T491A105(1)016A(2) 0.5 4.0 10.0  1.5 A T491A125(1)016A(2) 0.5 6.0 8.0  2.2 A T491A225(1)016A(2) 0.5 6.0 15.0  2.2 S T491S225(1)016A(2) 0.5 6.0 15.0  3.3 B T491B335(1)016A(2) 0.5 6.0 3.5  3.3 A T491A35(1)016A(2) 0.5 6.0 3.5  3.3 A T491A35(1)016A(2) 0.5 6.0 3.5  4.7 C T491C475(1)016A(2) 0.5 6.0 3.5  4.7 C T491C475(1)016A(2) 0.5 6.0 2.4  4.7 B T491B475(1)016A(2) 0.8 6.0 3.5  4.7 T T491A475(1)016A(2) 0.8 6.0 4.0  6.8 C T491C685(1)016A(2) 1.1 6.0 1.9  6.8 B T491B685(1)016A(2) 1.1 6.0 2.5  #6.8 A T491A685(1)016A(2) 1.1 6.0 2.5  #6.8 B T491B685(1)016A(2) 1.1 6.0 2.5  #10.0 C T491C106(1)016A(2) 1.6 6.0 1.8  10.0 U T491U106(1)016A(2) 1.6 6.0 1.8  10.0 T491C106(1)016A(2) 1.6 8.0 7.0  #10.0 T491C106(1)016A(2) 2.4 6.0 1.8  #10.0 A T491A106(1)016A(2) 2.4 6.0 1.8  #10.0 B T491B156(1)016A(2) 3.6 6.0 0.5  #15.0 C T491C26(1)016A(2) 2.4 6.0 1.8  #15.0 B T491B156(1)016A(2) 2.4 6.0 1.8  #15.0 U T491U126(1)016A(2) 3.6 6.0 0.8  #22.0 D T491D226(1)016A(2) 3.6 6.0 0.8  #22.0 U T491C226(1)016A(2) 3.6 6.0 0.8  #22.0 D T491D336(1)016A(2) 5.3 6.0 0.8  #33.0 U T491U336(1)016A(2) 5.3 6.0 0.8  #33.0 U T491U336(1)016A(2) 5.3 6.0 0.8  #33.0 U T491U336(1)016A(2) 7.5 6.0 0.8  #33.0 U T491U336(1)016A(2) 7.5 6.0 0.8  #47.0 C T491C476(1)016A(2) 7.5 6.0 0.7  #47.0 C T491C476(1)016A(2) 7.5 6.0 0.7  #47.0 C T491C66(1)016A(2) 10.9 6.0 0.7	#470.0	Х		47.0	10.0	0.2
16 Volt Rating at +85°C (10 Volt Rating at +125°C)						
1.0	#470.0					0.5
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2.2 A T491A225(1)016A(2) 0.5 6.0 6.0 15.0   #2.2 R T491S225(1)016A(2) 0.5 8.0 25.0   3.3 B T491B335(1)016A(2) 0.5 6.0 3.5   3.3 A T491A335(1)016A(2) 0.5 6.0 3.5   4.7 C T491C475(1)016A(2) 0.75 6.0 2.4   4.7 B T491B475(1)016A(2) 0.8 6.0 3.5   4.7 A T491A475(1)016A(2) 0.8 6.0 3.5   4.7 T T491T475(1)016A(2) 0.8 6.0 4.0   4.7 T T491475(1)016A(2) 0.8 6.0 4.0   6.8 C T491C685(1)016A(2) 1.1 6.0 1.9   6.8 B T491B685(1)016A(2) 1.1 6.0 2.5   #6.8 A T491A685(1)016A(2) 1.1 6.0 2.5   10.0 C T491C16(1)016A(2) 1.6 6.0 1.8   10.0 U T491U106(1)016A(2) 1.6 6.0 1.8   10.0 U T491U106(1)016A(2) 1.6 6.0 1.8   10.0 U T491C106(1)016A(2) 1.6 6.0 1.8   10.0 T T491T06(1)016A(2) 1.6 6.0 1.8   #10.0 T T491T06(1)016A(2) 1.6 6.0 1.8   #10.0 B T491B106(1)016A(2) 1.6 8.0 7.0   #15.0 C T491C156(1)016A(2) 2.4 6.0 1.8   15.0 U T491U156(1)016A(2) 2.4 6.0 1.8   15.0 B T491B156(1)016A(2) 2.4 6.0 2.5   #15.0 B T491B156(1)016A(2) 3.6 6.0 0.8   22.0 C T491C226(1)016A(2) 3.6 6.0 0.8   22.0 C T491C226(1)016A(2) 3.6 6.0 0.8   22.0 C T491C336(1)016A(2) 3.6 6.0 0.8   22.0 C T491C336(1)016A(2) 3.6 6.0 0.2   #33.0 U T491U326(1)016A(2) 5.3 6.0 0.2   #333.0 U T491U336(1)016A(2) 7.5 6.0 0.7   #47.0 C T491C476(1)016A(2) 7.5 6.0 0.7   #47.0 C T491C476(1)016A(2) 7.5 6.0 0.7   #47.0 C T491C66(1)016A(2) 7.5 6.0 0.7   #47.0 C T491C66(1)016A(2) 7.5 6.0 0.7   #47.0 C T491C86(1)016A(2) 7.5 6.0 0.7   #47.0 C T491C86(1)016A(2) 10.9 6.0 0.7   #48.0 D T491D866(1)016A(2) 10.9 6.0 0.7   #491D86(1)016A(2) 10.9 6.0 0.7   #491D86(1)016A(2) 10.9 6.0 0.7						
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3.3 B T491B335(1)016A(2) 0.5 6.0 3.5 3.3 A T491A335(1)016A(2) 0.5 6.0 5.0 4.7 C T491C475(1)016A(2) 0.5 6.0 2.4 4.7 B T491B475(1)016A(2) 0.8 6.0 3.5 4.7 A T491A475(1)016A(2) 0.8 6.0 3.5 4.7 T T491T475(1)016A(2) 0.8 6.0 1.0 6.8 C T491C685(1)016A(2) 1.1 6.0 1.9 6.8 B T491B685(1)016A(2) 1.1 6.0 2.5 #6.8 A T491A685(1)016A(2) 1.1 6.0 2.5 #6.8 A T491A685(1)016A(2) 1.1 6.0 2.5 #10.0 C T491C106(1)016A(2) 1.6 6.0 1.8 10.0 U T491U106(1)016A(2) 1.6 6.0 1.8 10.0 U T491U106(1)016A(2) 1.6 6.0 2.8 #10.0 A T491A106(1)016A(2) 1.6 6.0 2.8 #10.0 T T491T106(1)016A(2) 1.6 8.0 8.0 #10.0 T T491T106(1)016A(2) 1.6 8.0 8.0 #10.0 T T491B156(1)016A(2) 2.4 6.0 1.8 15.0 C T491C156(1)016A(2) 2.4 6.0 1.8 15.0 D T491B156(1)016A(2) 2.4 6.0 1.8 15.0 B T491B156(1)016A(2) 2.4 6.0 2.5 #15.0 B T491B156(1)016A(2) 2.4 6.0 1.8 15.0 B T491B156(1)016A(2) 3.6 6.0 1.8 15.0 B T491B26(1)016A(2) 3.6 6.0 0.8 22.0 C T491C226(1)016A(2) 3.6 6.0 0.8 3.5 22.0 D T491D226(1)016A(2) 3.6 6.0 0.8 #22.0 U T491U236(1)016A(2) 3.6 6.0 0.8 #33.0 C T491C336(1)016A(2) 5.3 6.0 0.8 #33.0 C T491C336(1)016A(2) 5.3 6.0 0.8 #33.0 U T491U336(1)016A(2) 5.3 6.0 0.8 #33.0 U T491U336(1)016A(2) 5.3 6.0 0.8 #47.0 V T491V476(1)016A(2) 7.5 6.0 0.7 #47.0 C T491C46(1)016A(2) 7.5 6.0 0.7 #47.0 C T491C66(1)016A(2) 7.5 6.0 0.7	2.2	S	T491S225(1)016A(2)	0.5	6.0	15.0
3.3 B T491B335(1)016A(2) 0.5 6.0 3.5 3.3 A T491A335(1)016A(2) 0.5 6.0 5.0 4.7 C T491C475(1)016A(2) 0.75 6.0 2.4 4.7 B T491B475(1)016A(2) 0.8 6.0 3.5 4.7 A T491A475(1)016A(2) 0.8 6.0 3.5 4.7 T T491T475(1)016A(2) 0.8 6.0 5.0 6.8 C T491C885(1)016A(2) 1.1 6.0 1.9 6.8 B T491B685(1)016A(2) 1.1 6.0 2.5 10.0 C T491C106(1)016A(2) 1.6 6.0 1.8 10.0 U T491U106(1)016A(2) 1.6 6.0 1.8 10.0 U T491U106(1)016A(2) 1.6 6.0 1.8 11.0 A T491A106(1)016A(2) 1.6 6.0 1.8 11.0 B T491B106(1)016A(2) 1.6 8.0 7.0 11.0 C T491C156(1)016A(2) 1.6 8.0 3.5 11.0 C T491C156(1)016A(2) 2.4 6.0 1.8 11.0 B T491B156(1)016A(2) 2.4 6.0 1.8 11.0 B T491B156(1)016A(2) 2.4 6.0 1.8 11.0 B T491B156(1)016A(2) 2.4 8.0 3.5 11.0 B T491B156(1)016A(2) 3.6 6.0 1.8 11.0 B T491B156(1)016A(2) 3.6 6.0 0.8 11.0 B T491B226(1)016A(2) 3.6 6.0 0.8 1	#2.2	R	T491R225(1)016A(2)	0.5	8.0	25.0
3.3         A         T491A335(1)016A(2)         0.5         6.0         5.0           4.7         C         T491C475(1)016A(2)         0.75         6.0         2.4           4.7         B         T491B475(1)016A(2)         0.8         6.0         3.5           4.7         A         T491A475(1)016A(2)         0.8         6.0         4.0           4.7         T         T491C865(1)016A(2)         0.8         6.0         5.0           6.8         C         T491C865(1)016A(2)         1.1         6.0         1.9           6.8         B         T491B685(1)016A(2)         1.1         6.0         2.5           #6.8         A         T491C106(1)016A(2)         1.6         6.0         3.5           10.0         C         T491C106(1)016A(2)         1.6         6.0         1.8           10.0         U         T491H0106(1)016A(2)         1.6         6.0         1.8           10.0         B         T491B106(1)016A(2)         1.6         6.0         2.8           #10.0         A         T491A106(1)016A(2)         1.6         8.0         2.0           #15.0         C         T491C156(1)016A(2)         2.4         6.0 <td< td=""><td>3.3</td><td>В</td><td></td><td></td><td>6.0</td><td></td></td<>	3.3	В			6.0	
4.7         C         T491C475(1)016A(2)         0.75         6.0         2.4           4.7         B         T491B475(1)016A(2)         0.8         6.0         3.5           4.7         A         T491A475(1)016A(2)         0.8         6.0         4.0           4.7         T         T491C685(1)016A(2)         1.1         6.0         1.9           6.8         C         T491C685(1)016A(2)         1.1         6.0         1.9           6.8         B         T491B685(1)016A(2)         1.1         6.0         2.5           #6.8         A         T491C685(1)016A(2)         1.6         6.0         3.5           10.0         C         T491C106(1)016A(2)         1.6         6.0         1.8           10.0         U         T491U106(1)016A(2)         1.6         6.0         1.8           10.0         B         T491B106(1)016A(2)         1.6         6.0         2.8           #10.0         A         T491B106(1)016A(2)         1.6         8.0         7.0           #10.0         T         T491T06(1)016A(2)         1.6         8.0         7.0           #15.0         C         T491C156(1)016A(2)         2.4         6.0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
4.7         B         T491B475(1)016A(2)         0.8         6.0         3.5           4.7         A         T491A475(1)016A(2)         0.8         6.0         4.0           4.7         T         T491A475(1)016A(2)         0.8         6.0         5.0           6.8         C         T491C685(1)016A(2)         1.1         6.0         1.9           6.8         B         T4916865(1)016A(2)         1.1         6.0         2.5           #6.8         A         T491A685(1)016A(2)         1.6         6.0         2.5           10.0         C         T491C106(1)016A(2)         1.6         6.0         1.8           10.0         U         T491B106(1)016A(2)         1.6         6.0         1.8           10.0         B         T491B106(1)016A(2)         1.6         6.0         2.8           #10.0         A         T491B106(1)016A(2)         1.6         8.0         7.0           #10.0         T         T491T106(1)016A(2)         1.6         8.0         8.0           #15.0         C         T491C156(1)016A(2)         2.4         6.0         1.8           #5.0         B         T491B156(1)016A(2)         2.4         6.0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
4.7         A         T491A475(1)016A(2)         0.8         6.0         4.0           4.7         T         T491T475(1)016A(2)         0.8         6.0         5.0           6.8         C         T491C685(1)016A(2)         1.1         6.0         1.9           6.8         B         T4916885(1)016A(2)         1.1         6.0         2.5           #6.8         A         T491A6885(1)016A(2)         1.1         6.0         3.5           10.0         C         T491C106(1)016A(2)         1.6         6.0         3.8           10.0         U         T491U106(1)016A(2)         1.6         6.0         2.8           #10.0         B         T491B106(1)016A(2)         1.6         6.0         2.8           #10.0         A         T491A106(1)016A(2)         1.6         8.0         2.8           #10.0         T         T491T106(1)016A(2)         1.6         8.0         2.8           #15.0         C         T491C156(1)016A(2)         2.4         6.0         1.8           15.0         U         T491U156(1)016A(2)         2.4         6.0         1.8           15.0         U         T491U156(1)016A(2)         2.4         6.0						
4.7         T         T491T475(1)016A(2)         0.8         6.0         5.0           6.8         C         T491C685(1)016A(2)         1.1         6.0         1.9           6.8         B         T4916865(1)016A(2)         1.1         6.0         2.5           #6.8         A         T4918685(1)016A(2)         1.1         6.0         3.5           10.0         C         T491C106(1)016A(2)         1.6         6.0         1.8           10.0         U         T491U106(1)016A(2)         1.6         6.0         2.8           #10.0         A         T491A106(1)016A(2)         1.6         8.0         7.0           #10.0         A         T491A106(1)016A(2)         1.6         8.0         7.0           #10.0         A         T491A106(1)016A(2)         1.6         8.0         7.0           #10.0         T         T491T06(1)016A(2)         2.4         6.0         1.8           #5.0         C         T491C156(1)016A(2)         2.4         6.0         1.8           #5.0         D         T491B156(1)016A(2)         2.4         6.0         1.8           #5.0         D         T491B156(1)016A(2)         2.4         8.0						
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15.0         U         T491U156(1)016A(2)         2.4         6.0         1.8           15.0         B         T491B156(1)016A(2)         2.4         6.0         2.5           #15.0         A         T491A156(1)016A(2)         2.4         8.0         3.5           22.0         D         T491D226(1)016A(2)         3.6         6.0         0.8           22.0         C         T491C226(1)016A(2)         3.6         6.0         1.6           #22.0         U         T491U226(1)016A(2)         3.6         6.0         1.6           #22.0         B         T491U226(1)016A(2)         3.6         6.0         2.2           33.0         D         T491B326(1)016A(2)         5.3         6.0         0.2           #33.0         D         T491D336(1)016A(2)         5.3         6.0         0.8           #33.0         U         T491U336(1)016A(2)         5.3         12.0         3.0           47.0         D         T491D476(1)016A(2)         7.5         6.0         0.8           47.0         V         T491V476(1)016A(2)         7.5         6.0         0.7           #47.0         C         T491C476(1)016A(2)         7.5         6.0						
15.0         B         T491B156(1)016A(2)         2.4         6.0         2.5           #15.0         A         T491A156(1)016A(2)         2.4         8.0         3.5           22.0         D         T491D226(1)016A(2)         3.6         6.0         0.8           22.0         C         T491C226(1)016A(2)         3.6         6.0         1.6           #22.0         U         T491B226(1)016A(2)         3.6         10.0         3.0           #22.0         B         T491B226(1)016A(2)         3.6         6.0         2.2           #33.0         D         T491D336(1)016A(2)         5.3         6.0         0.8           #33.0         C         T491C336(1)016A(2)         5.3         6.0         1.2           #33.0         U         T491U336(1)016A(2)         5.3         12.0         3.0           47.0         D         T491D476(1)016A(2)         7.5         6.0         0.8           47.0         V         T491V476(1)016A(2)         7.5         6.0         0.7           #47.0         C         T491V686(1)016A(2)         7.5         6.0         1.2           68.0         D         T491D686(1)016A(2)         10.9         6.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
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22.0         D         T491D226(1)016A(2)         3.6         6.0         0.8           22.0         C         T491C226(1)016A(2)         3.6         6.0         1.6           #22.0         U         T491U226(1)016A(2)         3.6         10.0         3.0           #22.0         B         T491B226(1)016A(2)         3.6         6.0         2.2           33.0         D         T491D336(1)016A(2)         5.3         6.0         0.8           #33.0         C         T491C336(1)016A(2)         5.3         12.0         3.0           47.0         D         T491D476(1)016A(2)         7.5         6.0         0.8           47.0         V         T491V476(1)016A(2)         7.5         6.0         0.7           #47.0         C         T491C476(1)016A(2)         7.5         6.0         1.2           68.0         V         T491V686(1)016A(2)         7.5         6.0         0.7           68.0         D         T491D686(1)016A(2)         10.9         6.0         0.7						
22.0         C         T491C226(1)016A(2)         3.6         6.0         1.6           #22.0         U         T491U226(1)016A(2)         3.6         10.0         3.0           #22.0         B         T491B226(1)016A(2)         3.6         6.0         2.2           33.0         D         T491D336(1)016A(2)         5.3         6.0         0.8           #33.0         C         T491C336(1)016A(2)         5.3         12.0         3.0           47.0         D         T491D476(1)016A(2)         7.5         6.0         0.8           47.0         V         T491V476(1)016A(2)         7.5         6.0         0.7           #47.0         C         T491C476(1)016A(2)         7.5         6.0         1.2           48.0         V         T491V686(1)016A(2)         7.5         6.0         0.7           68.0         D         T491D686(1)016A(2)         10.9         6.0         0.7						
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#22.0 B T491B226(1)016A(2) 3.6 6.0 2.2 33.0 D T491D336(1)016A(2) 5.3 6.0 0.8 #33.0 C T491C336(1)016A(2) 5.3 6.0 1.2 #33.0 U T491U336(1)016A(2) 5.3 12.0 3.0 47.0 D T491D476(1)016A(2) 7.5 6.0 0.8 47.0 V T491V476(1)016A(2) 7.5 6.0 0.7 #47.0 C T491C476(1)016A(2) 7.5 6.0 1.2 68.0 V T491V866(1)016A(2) 7.5 6.0 0.7 68.0 D T491D686(1)016A(2) 10.9 6.0 0.7						
33.0         D         T491D336(1)016A(2)         5.3         6.0         0.8           #33.0         C         T491C336(1)016A(2)         5.3         6.0         1.2           #33.0         U         T491U336(1)016A(2)         5.3         12.0         3.0           47.0         D         T491D476(1)016A(2)         7.5         6.0         0.8           47.0         V         T491V476(1)016A(2)         7.5         6.0         0.7           #47.0         C         T491C476(1)016A(2)         7.5         6.0         1.2           68.0         V         T491V686(1)016A(2)         10.9         6.0         0.7           68.0         D         T491D686(1)016A(2)         10.9         6.0         0.7						
#33.0 C T491C336(1)016A(2) 5.3 6.0 1.2 #33.0 U T491U336(1)016A(2) 5.3 12.0 3.0 47.0 D T491D476(1)016A(2) 7.5 6.0 0.8 47.0 V T491V476(1)016A(2) 7.5 6.0 0.7 #47.0 C T491C476(1)016A(2) 7.5 6.0 1.2 68.0 V T491V686(1)016A(2) 10.9 6.0 0.7 68.0 D T491D686(1)016A(2) 10.9 6.0 0.7						
#33.0 U T491U336(1)016A(2) 5.3 12.0 3.0 47.0 D T491D476(1)016A(2) 7.5 6.0 0.8 47.0 V T491V476(1)016A(2) 7.5 6.0 0.7 #47.0 C T491C476(1)016A(2) 7.5 6.0 1.2 68.0 V T491V686(1)016A(2) 10.9 6.0 0.7 68.0 D T491D686(1)016A(2) 10.9 6.0 0.7						
47.0         D         T491D476(1)016A(2)         7.5         6.0         0.8           47.0         V         T491V476(1)016A(2)         7.5         6.0         0.7           #47.0         C         T491C476(1)016A(2)         7.5         6.0         1.7           68.0         V         T491V686(1)016A(2)         10.9         6.0         0.7           68.0         D         T491D686(1)016A(2)         10.9         6.0         0.7						
47.0         V         T491V476(1)016A(2)         7.5         6.0         0.7           #47.0         C         T491C476(1)016A(2)         7.5         6.0         1.2           68.0         V         T491V686(1)016A(2)         10.9         6.0         0.7           68.0         D         T491D686(1)016A(2)         10.9         6.0         0.7           68.0         D         T491D686(1)016A(2)         10.9         6.0         0.7						
#47.0 C T491C476(1)016A(2) 7.5 6.0 1.2 68.0 V T491V686(1)016A(2) 10.9 6.0 0.7 68.0 D T491D686(1)016A(2) 10.9 6.0 0.7						
68.0 V T491V686(1)016A(2) 10.9 6.0 0.7 68.0 D T491D686(1)016A(2) 10.9 6.0 0.7						0.7
68.0 V T491V686(1)016A(2) 10.9 6.0 0.7 68.0 D T491D686(1)016A(2) 10.9 6.0 0.7	#47.0	С	T491C476(1)016A(2)	7.5	6.0	1.2
68.0 D T491D686(1)016A(2) 10.9 6.0 0.7						
10 U L 1491C000CDUIDA(2) 109 120 12	68.0	Č	T491C686(1)016A(2)	10.9	12.0	1.2

(1)	To complete KEMET Part Number, insert M for $\pm 20\%$ tolerance or K for $\pm 10\%$ tolerance.
(1)	To complete Kelvie i Part Number, insert ivi for ±20% tolerance or K for ±10% tolerance.

<sup>(2)</sup> To complete KEMET Part Number, insert T, H, G
\*Extended Values lead material designation as shown on page 15.

Higher voltage ratings and tighter tolerance product may be substituted within the same size at KEMET's option. Voltage substitutions will be marked with the higher voltage rating.

<b>UMBI</b>	ER	REFERENC	E		
Camaai			DC	DF %	ESR Ω
Capaci- tance	Case	KEMET	Leakage	@ +25°C	@ +25°C
μF	Size	Part Number	μA @ 25°C	120 Hz	100 kHz
-	16 \	 /olt Rating at +85°C (10 Vo	Max	Max 125°C)	Max
100.0	X	T491X107(1)016A(2)	16.0	8.0	0.7
†100.0	V	T491V107(1)016A(2)	16.0	12.0	0.7
#100.0 #150.0	D X	T491D107(1)016A(2) T491X157(1)016A(2)	16.0 24.0	8.0 8.0	0.7 0.5
#150.0	Ď	T491D157(1)016A(2)	24.0	12.0	0.7
#220.0	X	T491X227(1)016A(2)	35.2	10.0	0.5
#220.0	20 V	T491E227(1)016A(2)  olt Rating at +85°C (13 Vo	35.2 It Rating at +	7.2 125°C)	0.9
0.47	R	T491R474(1)020A(2)	0.1	4.0	35.0
0.68	Α	T491A684(1)020A(2)	0.5	4.0	12.0
1.0 1.0	A S	T491A105(1)020A(2) T491S105(1)020A(2)	0.5 0.5	4.0 6.0	9.0 18.0
#1.0	R	T491R105(1)020A(2)	0.5	6.0	20.0
1.5 1.5	A S	T491A155(1)020A(2) T491S155(1)020A(2)	0.5 0.5	6.0 6.0	6.5 15.0
2.2	В	T491B225(1)020A(2)	0.5	6.0	3.5
2.2	Α	T491A225(1)020A(2)	0.5	0.6	7.0
3.3	R B	T491R225(1)020A(2) T491B335(1)020A(2)	0.4	8.0 6.0	8.0 3.0
#3.3	Ā	T491A335(1)020A(2)	0.7	6.0	4.5
3.3	T	T491T335(1)020A(2)	0.7	6.0	5.0
4.7 4.7	C B	T491C475(1)020A(2) T491B475(1)020A(2)	1.0 1.0	6.0 6.0	2.4 3.0
#4.7	Α	T491A475(1)020A(2)	1.0	6.0	4.0
6.8 6.8	C U	T491C685(1)020A(2)	1.4 1.4	6.0 6.0	1.9 1.9
#6.8	В	T491U685(1)020A(2) T491B685(1)020A(2)	1.4	6.0	2.5
#6.8	Α	T491A685M020A(2)	1.4	8.0	6.0
10.0 10.0	C	T491C106(1)020A(2) T491U106(1)020A(2)	2.0 2.0	6.0 6.0	1.8 1.8
#10.0	В	T491B106(1)020A(2)	2.0	6.0	2.1
#10.0	A	T491A106M020A(2)	2.0	10.0	5.0
15.0 15.0	D C	T491D156(1)020A(2) T491C156(1)020A(2)	3.0 3.0	6.0 6.0	1.0 1.7
22.0	Ď	T491D226(1)020A(2)	4.4	6.0	0.8
22.0	V	T491V226(1)020A(2)	4.4	6.0	0.7
#22.0 #22.0	C B	T491C226(1)020A(2) T491B226(1)020A(2)	4.4 4.4	6.0 8.0	1.2 4.0
33.0	D	T491D336(1)020A(2)	6.6	6.0	0.8
#33.0	C V	T491C336M020A(2)	6.6	6.0	1.2
†33.0 47.0	C	T491V336(1)020A(2) T491C476M020A(2)	6.6 9.4	8.0 10.0	0.7
47.0	D	T491D476(1)020A(2)	9.4	6.0	0.7
68.0 #68.0	X D	T491X686(1)020A(2) T491D686(1)020A(2)	13.6 13.6	6.0 8.0	0.7 0.7
#100.0	X	T491X107(1)020A(2)	20.0	8.0	0.5
#100.0	E	T491E107(1)020A(2)	20.0	8.0	0.5
#150.0	25 \	T491X157(1)020A(2)  /olt Rating at +85°C (17 Vo	30.0 It Rating at +	10.0 125°C)	0.5
0.33	Α	T491A334(1)025A(2)	0.5	4.0	15.0
0.47	Α	T491A474(1)025A(2)	0.5	4.0	14.0 10.0
1.0	A B	T491A684(1)025A(2) T491B105(1)025A(2)	0.5 0.5	4.0	5.0
1.0	Α	T491A105(1)025A(2)	0.5	4.0	8.0
1.0 1.5	S B	T491S105(1)025A(2) T491B155(1)025A(2)	0.25 0.5	6.0	0.18 5.0
1.5	A	T491A155(1)025A(2)	0.5	6.0	7.5
1.5	R	T491R155(1)025A(2)	0.4	8.0	8.0
2.2 2.2	C B	T491C225(1)025A(2) T491B225(1)025A(2)	0.6 0.6	6.0 6.0	3.5 4.5
3.3	С	T491C335(1)025A(2)	0.9	6.0	2.5
3.3	В	T491B335(1)025A(2)	0.9	6.0	3.5
4.7 #4.7	C B	T491C475(1)025A(2) T491B475(1)025A(2)	1.2 1.2	6.0 6.0	2.4 1.5
#4.7	Α	T491A475M025A(2)	1.2	8.0	6.0
6.8 6.8	C B	T491C685(1)025A(2) T491B685(1)025A(2)	1.7 1.7	6.0 8.0	1.9 2.8
10.0	D	T491D106(1)025A(2)	2.5	6.0	1.0
10.0	С	T491C106(1)025A(2)	2.5	6.0	1.5
10.0 15.0	B D	T491B106(1)025A(2) T491D156(1)025A(2)	2.5 3.8	8.0 6.0	3.0 1.0
#15.0	С	T491C156(1)025A(2)	3.8	6.0	1.5
#15.0	В	T491B156(1)025A(2)	3.8	8.0	4.0
22.0 22.0	D C	T491D226(1)025A(2) T491C226(1)025A(2)	5.5 5.5	6.0 6.0	0.8 1.4
22.0	V	T491V226(1)025A(2)	5.5	6.0	0.7
33.0	X	T491X336(1)025A(2)	8.3	6.0	0.7
#33.0 #33.0	D C	T491D336(1)025A(2) T491C336(1)025A(2)	8.3 8.3	6.0 10.0	0.7 1.2
#47.0	X	T491X476(1)025A(2)	11.8	6.0	0.7
†47.0 †68.0	D X	T491D476(1)025A(2) T491X686M025A(2)	11.8 17.0	10.0 8.0	0.7 0.7
†68.0	D	T491D686M025A(2)	17.0	10.0	0.7
100.0	Χ	T491X107(1)025A(2)	25.0	8.0	0.3

<sup>\*\*6</sup> Volt product equivalent to 6.3 volt product. #Maximum Capacitance Change @ 125°C=+15%.

<sup>†</sup>Maximum Capacitance Change @ 125°C=+20%.

# SOLID TANTALUM CHIP CAPACITORS KEMET

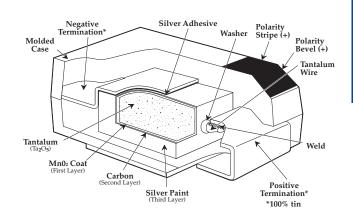
**T491 SERIES—Precision Molded Chip** 



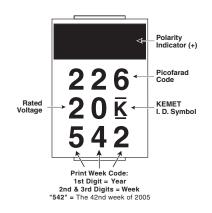
#### **T491 RATINGS & PART NUMBER REFERENCE**

Capaci-			DC	DF %	ESR Ω
•	Case	KEMET	Leakage	@ +25°C	@ +25°C
tance	Size	Part Number	μA @ 25°C	120 Hz	100 kHz
μF			Max	Max	Max
	35 \	olt Rating at +85°C (23 Vo	olt Rating at +	125°C)	
0.10	Α	T491A104(1)035A(2)	0.5	4.0	20.0
0.15	Α	T491A154(1)035A(2)	0.5	4.0	19.0
0.22	Α	T491A224(1)035A(2)	0.5	4.0	18.0
0.33	Α	T491A334(1)035A(2)	0.5	4.0	15.0
0.47	В	T491B474(1)035A(2)	0.5	4.0	8.0
0.47	Α	T491A474(1)035A(2)	0.5	4.0	12.0
0.68	В	T491B684(1)035A(2)	0.5	4.0	6.5
0.68	Α	T491A684(1)035A(2)	0.5	4.0	8.0
1.0	В	T491B105(1)035A(2)	0.5	4.0	5.0
1.0	Α	T491A105(1)035A(2)	0.5	4.0	7.5
1.5	С	T491C155(1)035A(2)	0.5	6.0	4.5
1.5	В	T491B155(1)035A(2)	0.5	6.0	5.0
2.2	С	T491C225(1)035A(2)	0.8	6.0	3.5
2.2	В	T491B225(1)035A(2)	0.8	6.0	4.0
3.3	С	T491C335(1)035A(2)	1.2	6.0	2.5
#3.3	В	T491B335(1)035A(2)	1.2	6.0	3.5
4.7	D	T491D475(1)035A(2)	1.7	6.0	1.5
4.7	C D	T491C475(1)035A(2)	1.7	6.0	2.2
6.8	C	T491D685(1)035A(2)	2.4	6.0	1.3
6.8	D	T491C685(1)035A(2)	2.4	6.0	1.8
10.0 #10.0	C	T491D106(1)035A(2) T491C106M035A(2)	3.5 3.5	6.0 6.0	1.0 1.6
#10.0	V	T491V106(1)035A(2)	3.5	6.0	2.0
15.0	X	T491X156(1)035A(2)	5.3	6.0	0.9
15.0	ĥ	T491D156(1)035A(2)	5.3	6.0	0.8
22.0	X	T491X226(1)035A(2)	7.7	6.0	0.7
#22.0	ĥ	T491D226(1)035A(2)	7.7	6.0	0.7
#33.0	X	T491X336(1)035A(2)	11.6	6.0	0.6
†47.0	X	T491X476(1)035A(2)	16.5	8.0	0.6
#47.0	E	T491E476(1)035A(2)	16.5	10.0	0.5
	50 V	olt Rating at +85°C (33 Vo			
0.10	Α	T491A104(1)050A(2)	0.5	4.0	20.0
0.15	В	T491B154(1)050A(2)	0.5	4.0	16.0
0.15	Α	T491A154(1)050A(2)	0.5	4.0	15.0
0.22	В	T491B224(1)050A(2)	0.5	4.0	14.0
0.33	В	T491B334(1)050A(2)	0.5	4.0	10.0
0.47	С	T491C474(1)050A(2)	0.5	4.0	8.0
0.47	В	T491B474(1)050A(2)	0.5	4.0	9.0
0.68	С	T491C684(1)050A(2)	0.5	4.0	7.0
0.68	В	T491B684(1)050A(2)	0.5	4.0	8.0
1.0	С	T491C105(1)050A(2)	0.5	4.0	5.5
1.0	B V	T491B105(1)050A(2)	0.5	6.0	6.0
1.0	D	T491V105(1)050A(2)	0.5	4.0	6.0 3.5
1.5	C	T491D155(1)050A(2) T491C155(1)050A(2)	0.8	6.0	
1.5 2.2	D	T491C155(1)050A(2)	0.8 1.1	6.0	4.5 2.5
2.2	C	T491D225(1)050A(2)	1.1	6.0	2.5 3.0
3.3	D	T491D335(1)050A(2)	1.7	6.0	2.0
4.7	D	T491D475(1)050A(2)	2.4	6.0	1.4
6.8	X	T491X685(1)050A(2)	3.5	6.0	1.0
#6.8	ĥ	T491D685(1)050A(2)	3.4	6.0	1.0
#10.0	X	T491X106M050A(2)	5.0	6.0	0.7
#10.0	Ď	T491D106(1)050A(2)	5.0	6.0	0.7
†15.0	X	T491X156(1)050A(2)	7.5	8.0	0.7

## CONSTRUCTION



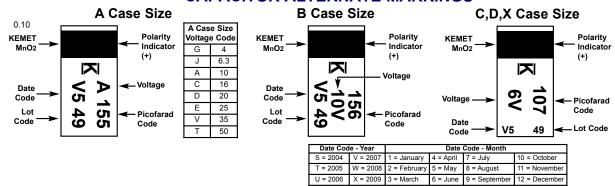
## **CAPACITOR MARKINGS**



Higher voltage ratings and tighter tolerance product may be substituted within the same size at KEMET's option.

Voltage substitutions will be marked with the higher voltage rating.

#### CAPACITOR ALTERNATE MARKINGS



To complete KEMET Part Number, insert M for ±20% tolerance or K for ±10% tolerance.

To complete KEMET Part Number, insert T, H, G lead material designation as shown on page 15.

<sup>\*</sup>Extended Values

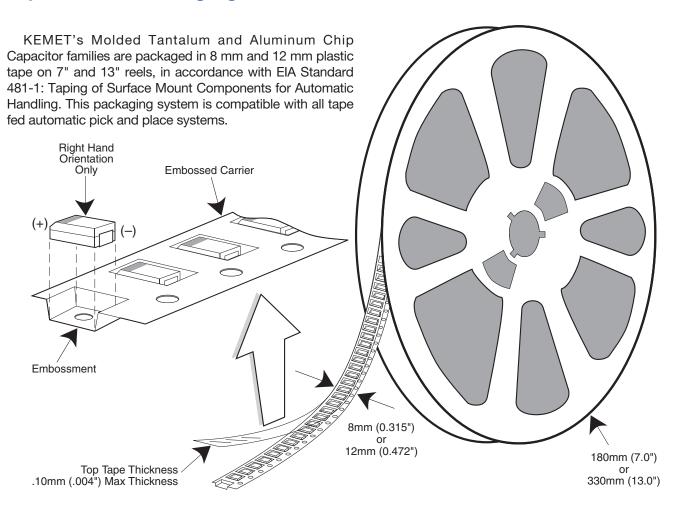
<sup>\*\*6</sup> Volt product equivalent to 6.3 volt product.

<sup>#</sup>Maximum Capacitance Change @ 125°C=+15%. †Maximum Capacitance Change @ 125°C=+20%.

# **KEMET** TANTALUM AND ALUMINUM CHIP CAPACITORS

**Packaging Information** 

# Tape & Reel Packaging



**Labeling:** Bar code labeling (standard or custom) shall be on the side of the reel opposite the sprocket holes. Refer to EIA-556.

#### **QUANTITIES PACKAGED PER REEL**

Cas	e Code	Tape		
KEMET	EIA	Width-mm	7" Reel*	13" Reel*
R	2012-12	8	2,500	10,000
S	3216-12	8	2,500	10,000
T	3528-12	8	2,500	10,000
U	6032-15	12	1,000	5,000
W	7343-15	12	1,000	3,000
V	7343-20	12	1,000	3,000
Α	3216-18	8	2,000	9,000
В	3528-21	8	2,000	8,000
С	6032-28	12	500	3,000
D	7343-31	12	500	2,500
Υ	7343-40	12	500	2,000
X	7343-43	12	500	2,000
Е	7260-38	12	500	2,000

<sup>\*</sup> No c-spec required for 7" reel packaging. C-7280 required for 13" reel packaging.



# TANTALUM, CERAMIC AND ALUMINUM CHIP CAPACITORS

## **Packaging Information**

# **Performance Notes**

1. Cover Tape Break Force: 1.0 Kg Minimum.

2. Cover Tape Peel Strength: The total peel strength of the cover tape from the carrier tape shall be:

#### Tape Width Peel Strength

8 mm 0.1 Newton to 1.0 Newton (10g to 100g) 12 mm 0.1 Newton to 1.3 Newton (10g to 130g)

The direction of the pull shall be opposite the direction of the carrier tape travel. The pull angle of the carrier tape shall be  $165^{\circ}$  to  $180^{\circ}$  from the plane of the carrier tape. During peeling, the carrier and/or cover tape shall be pulled at a velocity of  $300 \pm 10$  mm/minute.

- 3. Reel Sizes: Molded tantalum capacitors are available on either 180 mm (7") reels (standard) or 330 mm (13") reels (with C-7280). Note that 13" reels are preferred.
- **4. Labeling:** Bar code labeling (standard or custom) shall be on the side of the reel opposite the sprocket holes. Refer to EIA-556.

## **Embossed Carrier Tape Configuration:** Figure 1

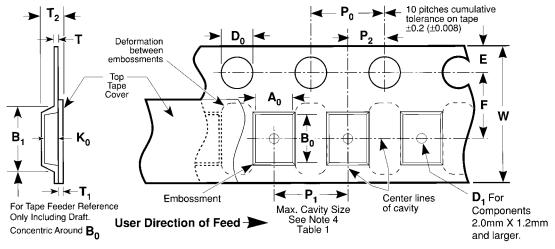


Table 1 — EMBOSSED TAPE DIMENSIONS (Metric will govern)

		(	onstant	Dimensions -	- Millimeters (I	nches)						
Tape Size	D <sub>o</sub>		E	P <sub>o</sub>	P <sub>2</sub>	T Max	T₁ Max					
8 mm and	1.5 +0.10 -0		5 ±0.10	4.0 ±0.10	2.0 ±0.05	0.600	0.100					
12 mm	(0.059 +0.004, -0	(0.069	0 ±0.004)	(0.157 ±0.004)	(0.079 ±0.002)	(0.024)	(0.004)					
Variable Dimensions — Millimeters (Inches)												
Tape Size	Pitch	B₁ Max.	D₁ Min.	F	P <sub>1</sub>	R Min.	T <sub>2</sub> Max	W	A <sub>0</sub> B <sub>0</sub> K <sub>0</sub>			
		Note 1	Note 2			Note 3			Note 4			
8 mm	Single (4 mm)	4.4	1.0	3.5 ±0.05	4.0 ±0.10	25.0	2.5	8.0 ±0.30				
	( ,	(0.173)	(0.039)	(0.138 ±0.002)	(0.157 ±0.004)	(0.984)	(0.098)	(.315 ±0.012)				
12 mm	Double (8 mm)	8.2 (0.323)	1.5 (0.059)	5.5 ±0.05 (0.217 ±0.002)	8.0 ±0.10 (0.315 ±0.004)	30.0 (1.181)	4.6 (0.181)	12.0 ±0.30 (0.472 ±0.012)				

#### NOTES

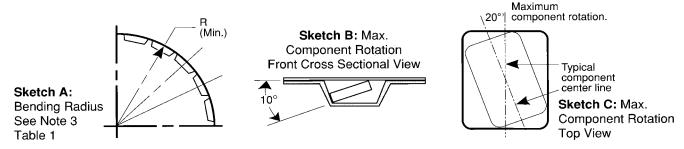
- 1. B1 dimension is a reference dimension for tape feeder clearance only.
- 2. The embossment hole location shall be measured from the sprocket hole controlling the location of the embossment. Dimensions of embossment location and hole location shall be applied independent of each other.
- 3. Tape with components shall pass around radius "R" without damage (see sketch A). The minimum trailer length (Fig. 2) may require additional length to provide R min. for 12 mm embossed tape for reels with hub diameters approaching N min. (Table 2)
- 4. The cavity defined by A₀, B₀, and K₀ shall be configured to surround the part with sufficient clearance such that the chip does not protrude beyond the sealing plane of the cover tape, the chip can be removed from the cavity in a vertical direction without mechanical restriction, rotation of the chip is limited to 20 degrees maximum in all 3 planes, and lateral movement of the chip is restricted to 0.5 mm maximum in the pocket (not applicable to vertical clearance.)

# TANTALUM, CERAMIC AND ALUMINUM CHIP CAPACITORS

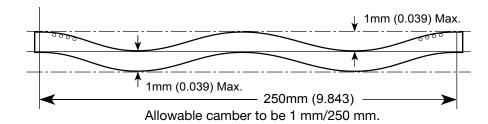


## **Packaging Information**

## **Embossed Carrier Tape Configuration (cont.)**



Sketch D: Tape Camber (Top View)



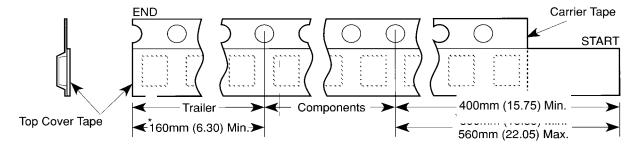


Figure 2: Tape Leader & Trailer Dimensions (Metric Dimensions Will Govern)

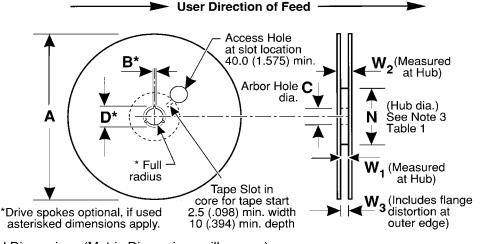


Figure 3: Reel Dimensions (Metric Dimensions will govern)

#### Table 2 – REEL DIMENSIONS (Metric will govern)

Tape Size	A Max	B* Min	С	D* Min	N Min	W <sub>1</sub>	W <sub>2</sub> Max	W <sub>3</sub>
8 mm	330.0 (12.992)	1.5 (0.059)	13.0 ± 0.20 (0.512 ± 0.008)	20.2 (0.795)	50.0 (1.969) See Note 3	8.4 +1.5, -0.0 (0.331 +0.059, -0.0)	14.4 (0.567)	7.9 Min (0.311) 10.9 Max (0.429)
12 mm	330.0 (12.992)	1.5 (0.059)	13.0 ± 0.20 (0.512 ± 0.008)	20.2 (0.795)	Table 1	12.4 +2.0, -0.0 (0.488 +0.078, -0.0)	18.4 (0.724)	11.9 Min (0.469) 15.4 Max (0.606)