



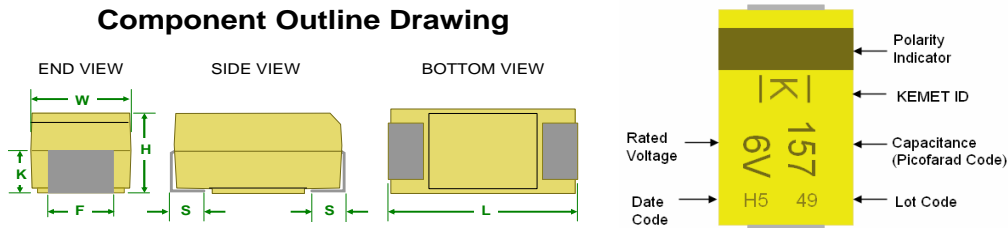
KEMET's New T491, T495, T498 and T510 Releases

KEMET continues to focus on expanding our T495 low ESR, surge robust tantalum capacitor series with **twenty four** new low ESR options! We have also expanded our offerings in the Ta High Temperature (150° C) T498 series as well as the High Cap/Ultra Low ESR T510 Series.

- Twenty four new low ESR T495 part types have been released in a variety of case sizes. They include A cases (3216-18), B cases (3528-21), C case (6032-28), D cases (7343-31), and X cases (7343-43). These new releases range from 2.2 to 470mF and 2.5 to 25 volts! Many of these releases were initiated through customer requests including the T495X477M010AT E045 part number which has been requested throughout many different industry segments. KEMET's low ESR T495 series was designed for applications with high surge current potential such as DC/DC converters and output filtering on power supplies. See the link below for details on ripple current capability for the new low ESR offerings!
- KEMET has also extended the T498 High Temperature (150° C) Series with the introduction of the T498C156*035ZT part number. With a capacitance value of 15uF and rated voltage of 35V, this C case (6032-28) part is an industry first representing the highest CV rating available in this configuration. The T498 series was designed to deliver stable and reliable performance in extreme temperature applications such as automotive under-the-hood applications and oil exploration.
- KEMET continues to expand its High Capacitance/Low ESR T510 Multiple Anode Series as well with the release of the T510X687*006A* E023 part number. Previously offered in an E case (7260-38), this latest release now offering 680uF of capacitance at 6.3V with an ESR maximum limit of 23mohms in an X case (7343-43) option. Common applications for the T510 include filtering and high speed microprocessor decoupling.
- Several new additions have also been added to the T491 Commercial Series including the T491D107*020ZT. This part number offers the highest CV available in this case size and voltage rating and is commonly used in many 10V power supply applications.
- These new releases are available in RoHS compliant (Pb-free) finishes, and are capable of meeting the 260C peak Pb-free profiles - 3 passes!
- Contact your local KEMET Sales representative for sample availability on these new releases. Visit <http://www.kemet.com/> for quick access to the latest product specifications, SPICE simulation modeling software, FIT calculator, technical articles and much more!

T498 Series - High Temperature (150° C)
Product Specification

Component Outline Drawing



Case Codes		Component Dimensions					
		L	W	H	K Min	F ± 0.1	S ± 0.3
KEMET	EIA						
A	3216-18	3.2±0.2	1.6±0.2	1.6±0.2	0.7	1.2	0.8
B	3528-21	3.5±0.2	2.8±0.2	1.9±0.2	0.9	2.2	0.8
C	6032-28	6.0±0.3	3.2±0.3	2.5±0.3	1.2	2.2	1.3
D	7343-31	7.3±0.3	4.3±0.3	2.8±0.3	1.3	2.4	1.3
X	7343-43	7.3±0.3	4.3±0.3	4.0±0.3	2.1	2.4	1.3

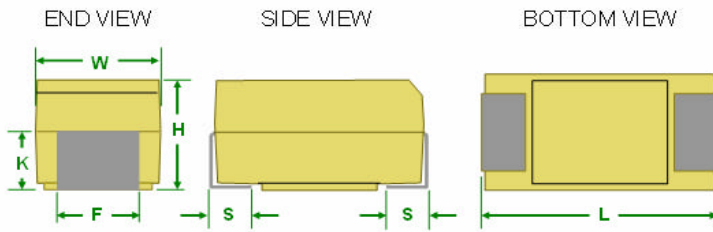
KEMET Part Number	Case	Cap (µF)	Voltage	DCL V _R (µA)	DF 120Hz (%)	ESR, 100kHz (mW)	Ripple Current (mArms) @100 kHz		
							@ 25°C	@ 85°C	@ 125°C
T498C156(1)03SZ(2) E900	C/6032-28	15	35	5.3	6.0	900	350	315	140

- (1) To complete KEMET part number, insert "K" for +/- 10% or "M" for +/- 20% capacitance tolerance
(2) To complete KEMET part number, insert lead material designator "T" for 100% tin (Sn) termination or "H" for tin/lead (Sn/Pb) termination

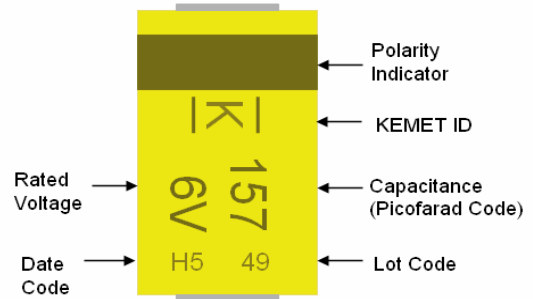
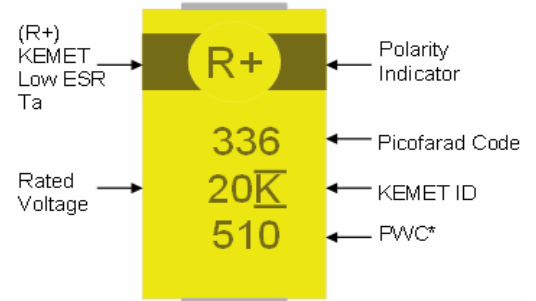
T495 Series - KEMET Low ESR, Surge Robust Tantalum Chip Capacitor

Product Specification

Component Outline Drawing



Component Marking



Case Codes		Component Dimensions					
		L	W	H	K Min	F ± 0.1	S ± 0.3
KEMET	EIA						
A	3216-18	3.2±0.2	1.6±0.2	1.6±0.2	0.7	1.2	0.8
B	3528-21	3.5±0.2	2.8±0.2	1.9±0.2	0.9	2.2	0.8
C	6032-28	6.0±0.3	3.2±0.3	2.5±0.3	1.2	2.2	1.3
D	7343-31	7.3±0.3	4.3±0.3	2.8±0.3	1.3	2.4	1.3
X	7343-43	7.3±0.3	4.3±0.3	4.0±0.3	2.1	2.4	1.3
E	7360-38	7.3±0.3	6.0±0.3	3.6±0.2	2.1	4.1	1.3
V	7343-20	7.3±0.3	4.3±0.3	2.0 max	0.9	2.4	1.3

Part Number and Electrical Specification Table

KEMET Part Number	Case	Cap (µF)	Voltage	DCL V _R (µA)	DF 120Hz (%)	ESR, 100kHz (mW)	Ripple Current (mArms) @ 100 kHz		
							@ 25°C	@ 85°C	@ 125°C
T495D477(1)2R5A(2) E035	D/7343-31	470	2.5	11.8	8.0	35	2070	1863	828
T495C157(1)004A(2) E070	C/6032-28	150	4	6.0	12.0	70	1254	1128	501
T495D477(1)004A(2) E045	A/3216-18	470	4	18.8	12.0	45	1826	1643	730
T495D477(1)004A(2) E100	D/7343-31	470	4	18.8	12.0	100	1225	1102	490
T495A226(1)006ZT E900	A/3216-18	22	6.3	1.4	8.0	900	289	260	115
T495C157(1)006A(2) E050	C/6032-28	150	6.3	9.5	8.0	50	1483	1335	593
T495B226(1)010ZT E500	B/3528-21	22	10	2.2	6.0	500	412	371	165
T495A106(1)010ZT E1K8	A/3216-18	10	10	1.0	6.0	1800	204	184	82
T495C686(1)010A(2) E080	C/6032-28	68	10	6.8	6.0	80	1173	1055	469
T495C107(1)010ZT E100	C/6032-28	100	10	10.0	8.0	100	1049	944	420
T495X157(1)010A(2) E070	X/7343-43	150	10	15.0	8.0	70	1535	1382	614
T495X157(1)010A(2) E080	X/7343-43	150	10	15.0	8.0	80	1436	1293	574
T495X477M010A(2) E045	X/7343-43	470	10	47.0	10.0	45	1915	1723	766
T495X477M010A(2) E050	X/7343-43	470	10	47.0	10.0	50	1817	1635	727
T495A225(1)016ZT E1K8	A/3216-18	2.2	16	0.4	6.0	1800	204	184	82
T495A106(1)016ZT E1K7	A/3216-18	10	16	1.6	6.0	1700	210	189	84
T495B226(1)016ZT E600	B/3528-21	22	16	3.5	6.0	600	376	339	151
T495C336(1)016A(2) E200	C/6032-28	33	16	5.3	6.0	200	742	667	297
T495D686(1)020A(2) E070	D/7343-31	68	20	13.6	8.0	70	1464	1317	586

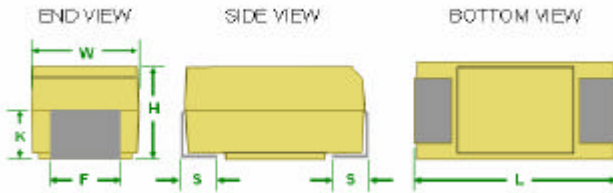
T495D107(1)020ZT E200	D/7343-31	100	20	20.0	8.0	200	866	779	346
T495X107(1)020A(2) E100	X/7343-43	100	20	20.0	6.0	100	1285	1156	514
T495C106(1)025A(2) E275	C/6032-28	10	25	2.5	6.0	275	632	569	253
T495C106(1)025A(2) E300	C/6032-28	10	25	2.5	6.0	300	606	545	242
T495C226(1)025A(2) E275	C/6032-28	22	25	5.5	6.0	275	632	569	253

(1) To complete KEMET part number, insert "K" for +/- 10% or "M" for +/- 20% capacitance tolerance

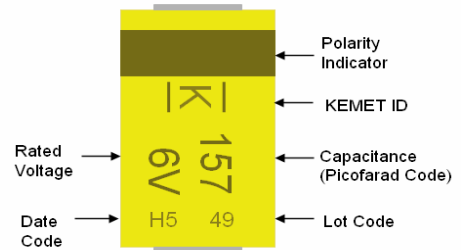
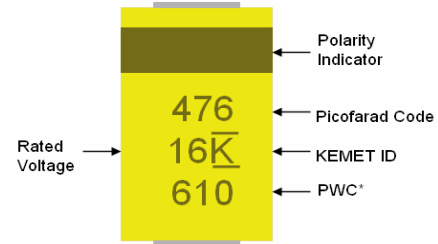
(2) To complete KEMET part number, insert lead material designator "T" for 100% tin (Sn) termination or "H" for tin/lead (Sn/Pb) termination

T491/ T494 Series - KEMET Low ESR, Surge Robust Tantalum Chip Capacitor
Product Specification

Component Outline Drawing



Component Marking



Case Codes		Component Dimensions					
		L	W	H	K Min	F ±0.1	S ±0.3
KEMET	EIA						
A	3216-18	3.2±0.2	1.6±0.2	1.6±0.2	0.7	1.2	0.8
B	3528-21	3.5±0.2	2.8±0.2	1.9±0.2	0.9	2.2	0.8
C	6032-28	6.0±0.3	3.2±0.3	2.5±0.3	1.2	2.2	1.3
D	7343-31	7.3±0.3	4.3±0.3	2.8±0.3	1.3	2.4	1.3
X	7343-43	7.3±0.3	4.3±0.3	4.0±0.3	2.1	2.4	1.3
E	7360-38	7.3±0.3	6.0±0.3	3.6±0.2	2.1	4.1	1.3
R	2012-12	2.0±0.2	1.3±0.2	1.2 Max	0.3	0.9	0.5
V	7343-20	7.3±0.3	4.3±0.3	2.0 max	0.9	2.4	1.3

Part Number and Electrical Specification Table

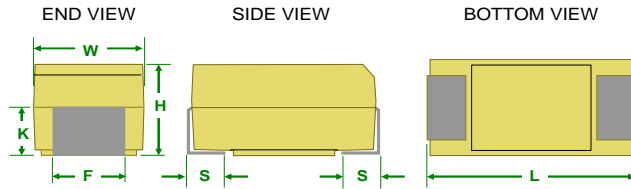
KEMET Part Number	Case	Cap (µF)	Voltage	DCL V _R (µA)	DF 120Hz (%)	ESR, 100kHz (W)
T491D687K004A(2)	D/7343-31	680	4	27.2	12.0	0.5
T491X687K004A(2)	D/7343-31	680	4	27.2	12.0	0.5
T491D107(1)020ZT	D/7343-31	100	20	20.0	8.0	0.9

(1) To complete KEMET part number, insert "K" for +/- 10% or "M" for +/- 20% capacitance tolerance

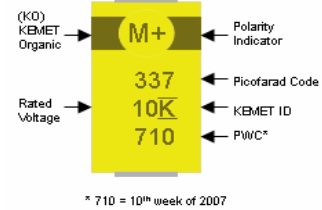
(2) To complete KEMET part number, insert lead material designator "T" for 100% tin (Sn) termination or "H" for tin/lead (Sn/Pb) termination

T510 Series - High Capacitance-Low ESR
Product Specification

Component Outline Drawing



Component Marking



Case Codes		Component Dimensions					
		L	W	H	K Min	F ± 0.1	S ± 0.3
KEMET	EIA						
X	7343-43	7.3±0.3	4.3±0.3	4.0±0.3	2.1	2.4	1.3
E	7260-38	7.3±0.3	6.0±0.3	3.6±0.3	2.1	4.1	1.3

Part Number and Electrical Specification Table

KEMET Part Number	Case	Cap (μ F)	Voltage	DCL V_R (μ A)	DF 120Hz (%)	ESR, 100kHz (mW)	Ripple Current (Arms) @ 100 kHz		
							@ 25°C	@ 85°C	@ 125°C
T510X687(1)006A(2) E023	X/7343-43	680	6.3	42.8	6.0	23	3.4	3.1	1.4

(1) To complete KEMET part number, insert "K" for +/- 10% or "M" for +/- 20% capacitance tolerance

(2) To complete KEMET part number, insert lead material designator "T" for 100% tin (Sn) termination or "H" for tin/lead (Sn/Pb) termination