

# KEMET Tantalum SMD Capacitors

## T490 - High CV Consumer Series



### High CV Consumer Series (T490)

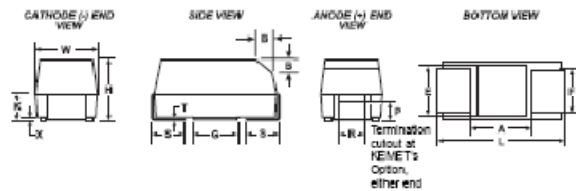


### Features & Benefits

- High Volumetric Efficiency
- Surface Mount Technology
- Operating Temperature: -55°C to +40°C, Rated Voltage (Vr)
- Operating Range: 0.5Vr @ 85°C; 0.2Vr @ 125°C
- Voltage Range: 4V to 10V
- Capacitance Range: 47 µF to 470µF
- Small & Low Profile Case Sizes
- Suitable for 3x260°C reflow
- RoHS compatible (Lead-free LF and Green compound)
- Consumer products applications (low temperature applications)

### Dimensions

KEMET	EIA	L*	W*	H*
A	3216-18	3.2 ± 0.2 (.126 ± .008)	1.6 ± 0.2 (.063 ± .008)	1.6 ± 0.2 (.063 ± .008)
B	3528-21	3.5 ± 0.2 (.138 ± .008)	2.8 ± 0.2 (.110 ± .008)	1.9 ± 0.2 (.075 ± .008)
T	3528-12	3.5 ± 0.2 (.138 ± .008)	2.8 ± 0.2 (.110 ± .008)	1.2 (.047)



### Ordering Information

T	490	B	227	M	006	A	T	E500
Capacitor Class	Series	Case Size	Capacitance Code (pF)	Capacitance Tolerance	Voltage	Failure Rate/ Design	Lead Material	ESR
T = Tantalum	High CV Consumer Series	A, B, T	First two digits represent significant figures. Third digit specifies number of zeros.	K = ±10% M = ±20%	004 = 4V 006 = 6.3V 010 = 10V	A = N/A	T = 100% Matte Tin (Sn) Plated*	E=ESR Last three digits specify ESR in mOhms (500 = 500mOhms)

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### T490 Series Waterfall Chart

<i>Capacitance</i>	<i>Voltage</i>		
	<b>4 V</b>	<b>6.3 V</b>	<b>10 V</b>
<b>47 <math>\mu</math>F</b>		<b>T 500</b>	<b>A 600</b> <b>T 600</b>
<b>68 <math>\mu</math>F</b>		<b>A 500</b> <b>T 600</b>	<b>A 600</b> <b>T 1000</b>
<b>100 <math>\mu</math>F</b>	<b>A 800</b>	<b>A 500/800</b> <b>T 1000</b>	<b>A 800</b> <b>T 1000</b>
<b>150 <math>\mu</math>F</b>	<b>A 800</b> <b>T 800</b>	<b>A 800</b> <b>T 800</b> <b>B 800</b>	<b>B 800</b>
<b>220 <math>\mu</math>F</b>	<b>A 800</b> <b>B 500</b> <b>T 800</b>	<b>B 500</b>	<b>B 1K0</b>
<b>330 <math>\mu</math>F</b>	<b>B 800</b>	<b>B 800</b>	
<b>470 <math>\mu</math>F</b>	<b>B 800</b>		

**XXX** Part Type Qualified

**xxx** Part Type under Development

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## T490 Part Type Ratings

Rated Voltage (V)	Rated Capacitance (μF)	Case Code/ Case Size	KEMET Part Number	DC Leakage μA @ 25°C max/5min	ESR mΩ @ 25°C 100 kHz Max	ESR Espec Code
4	100	A/3216-18	T490A107M004ATE500	4.0	500	E500
4	150	A/3216-18	T490A157M004ATE800	6.0	800	E800
4	220	B/3528-21	T490B227M004ATE500	8.8	500	E500
4	330	B/3528-21	T490B337M004ATE800	13.2	800	E800
4	150	T/3528-12	T490T157M004ATE800	6.0	800	E800
6.3	68	A/3216-18	T490A686M006ATE500	4.3	500	E500
6.3	100	A/3216-18	T490A107M006ATE500	6.3	500	E500
6.3	100	A/3216-18	T490A107M006ATE800	6.3	800	E800
6.3	150	B/3528-21	T490B157M006ATE800	9.5	800	E800
6.3	220	B/3528-21	T490B227M006ATE500	13.9	500	E500
6.3	47	T/3528-12	T490T476M006ATE500	4.7	500	E500
6.3	68	T/3528-12	T490T686M006ATE600	4.3	600	E600
6.3	100	T/3528-12	T490T107M006ATE1K0	6.3	1000	E1K0
10	47	A/3216-18	T490A476M010ATE600	4.7	600	E600
10	150	B/3528-21	T490B157M010ATE800	15.0	800	E800