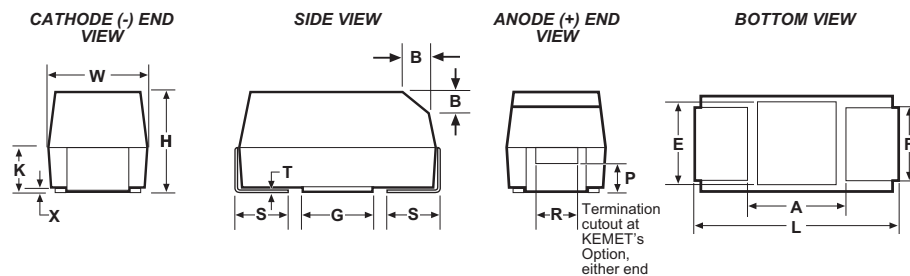


**T530 Series - High Capacitance/Ultra-Low ESR Tantalum Surface Mount Capacitor  
DSCC Dwg. 04052 Approved**

Features	
Polymer Cathode Technology	100% Accelerated Steady State Aging
Extremely Low ESR	100% Surge Current Testing
High Frequency Capacitance Retention	Utilizes Multiple Tantalum Anode Technology
Non-Ignition Failure Mode	Volumetrically Efficient
Use up to 90% of Rated Voltage (10% Derating)	Self-Healing Mechanism
Operating Temperature -55°C to +125°C	Available tested per DSCC Dwg. 04052

**Outline Drawing**

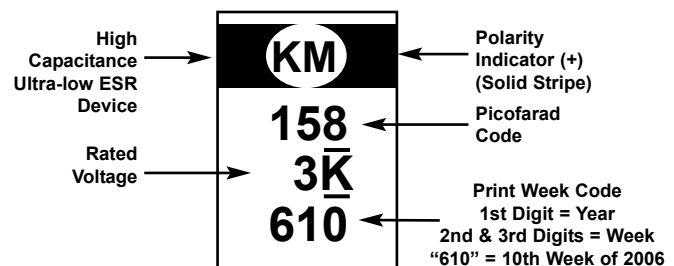


**Dimensions – Millimeters**

KEMET Size Code	EIA Size Code	L Length	W Width	H Height	K $\pm 0.20$ $\pm(.008)$	F $\pm 0.10$ $\pm(.004)$	S $\pm 0.30$ $\pm(.012)$	B(Ref) $\pm 0.15$ $\pm(.006)$	X (Ref)	P (Ref)	R (Ref)	T (Ref)	A (Min)	G (Ref)	E (Ref)
D	7343-31	7.3 $\pm$ 0.30 (.287 $\pm$ .012)	4.3 $\pm$ 0.30 (.169 $\pm$ .012)	2.8 $\pm$ 0.30 (.110 $\pm$ .012)	1.5 (.059)	2.4 (.094)	1.3 (.051)	0.5 (.020)	0.10 $\pm$ 0.10 (.004 $\pm$ .004)	0.9 (.035)	1.0 (.039)	0.13 (.005)	3.8 (.150)	3.5 (.138)	3.5 (.138)
Y	7343-40	7.3 $\pm$ 0.30 (.287 $\pm$ .012)	4.3 $\pm$ 0.30 (.169 $\pm$ .012)	4.0 max.	1.9 (.075)	2.4 (.094)	1.3 (.051)	----	0.10 $\pm$ 0.10 (.004 $\pm$ .004)	----	----	0.13 (.005)	3.8 (.150)	3.5 (.138)	3.5 (.138)
X	7343-40	7.3 $\pm$ 0.30 (.287 $\pm$ .012)	4.3 $\pm$ 0.30 (.169 $\pm$ .012)	4.0 $\pm$ 0.30 (.157 $\pm$ .012)	2.3 (.090)	2.4 (.094)	1.3 (.051)	----	0.10 $\pm$ 0.10 (.004 $\pm$ .004)	----	----	0.13 (.005)	3.8 (.150)	3.5 (.138)	3.5 (.138)

**Construction**

**Component Marking**



## Ratings & Part Number Reference

Capacitance $\mu\text{F}$	Case Size	KEMET Part Number	DSCC DWG. No. 04052 Part Number	DC Leakage $\mu\text{A}$ @ 25°C Max	DF % @ 25°C 120Hz Max	ESR $\text{m}\Omega$ @100 kHz 25°C Max	Ripple Current (Arms) @ 100 kHz	
							w/ $\Delta\text{T}$ = 20°C @ -55°C to 105°C	w/ $\Delta\text{T}$ = 2°C @ 125°C
<b>2.5 Volt Rating at 105°C (1.7 Volt Rating at 125°C)</b>								
470.0	D	T530D477M2R5AH4097	04052-001	118	8.0	5.0	7.1	2.3
470.0	D	T530D477M2R5AH4096	04052-002	118	8.0	6.0	6.5	2.1
470.0	D	T530D477M2R5AH4095	04052-003	118	10.0	10.0	5.0	1.6
560.0	D	T530D567M2R5AH4095	04052-004	140	8.0	5.0	7.1	2.3
680.0	Y	T530Y687M2R5AH4096	04052-005	170	8.0	5.0	7.2	2.3
680.0	Y	T530Y687M2R5AH4095	04052-006	170	8.0	6.0	6.6	2.1
680.0	D	T530D687M2R5AH4096	04052-007	170	8.0	6.0	6.5	2.1
680.0	D	T530D687M2R5AH4095	04052-008	170	8.0	10.0	5.0	1.6
1000.0	X	T530X108M2R5AH4096	04052-009	250	8.0	5.0	7.3	2.3
1000.0	X	T530X108M2R5AH4095	04052-010	250	8.0	6.0	6.7	2.1
1500.0	X	T530X158M2R5AH4095	04052-011	375	8.0	5.0	7.3	2.3
<b>3 Volt Rating at 105°C (2 Volt Rating at 125°C)</b>								
470.0	D	T530D477M003AH4095	04052-012	141	8.0	10.0	5.0	1.6
680.0	D	T530D687M003AH4095	04052-013	204	8.0	10.0	5.0	1.6
1000.0	X	T530X108M003AH4095	04052-014	300	8.0	10.0	5.2	1.6
1500.0	X	T530X158M003AH4095	04052-015	450	8.0	8.0	5.8	1.8
<b>4 Volt Rating at 105°C (2.7 Volt Rating at 125°C)</b>								
330.0	D	T530D337M004AH4096	04052-016	132	8.0	5.0	7.1	2.3
330.0	D	T530D337M004AH4095	04052-017	132	8.0	6.0	6.5	2.1
470.0	D	T530D477M004AH4095	04052-018	188	8.0	10.0	5.0	1.6
470.0	Y	T530Y477M004AH4096	04052-019	188	8.0	5.0	7.2	2.3
470.0	Y	T530Y477M004AH4095	04052-020	188	8.0	6.0	6.6	2.1
680.0	X	T530X687M004AH4097	04052-021	272	8.0	5.0	7.3	2.3
680.0	X	T530X687M004AH4096	04052-022	272	8.0	6.0	6.7	2.1
680.0	X	T530X687M004AH4095	04052-023	272	8.0	10.0	5.2	1.6
1000.0	X	T530X108M004AH4095	04052-024	400	8.0	6.0	6.7	2.1
<b>6.3 Volt Rating at 105°C (4.2 Volt Rating at 125°C)</b>								
220.0	D	T530D227M006AH4096	04052-025	139	8.0	5.0	7.1	2.3
220.0	D	T530D227M006AH4095	04052-026	139	8.0	6.0	6.5	2.1
330.0	D	T530D337M006AH4095	04052-027	208	8.0	10.0	5.0	1.6
330.0	Y	T530Y337M006AH4097	04052-028	208	8.0	5.0	7.2	2.3
330.0	Y	T530Y337M006AH4096	04052-029	208	8.0	6.0	6.6	2.1
330.0	Y	T530Y337M006AH4095	04052-030	208	8.0	10.0	5.1	1.6
470.0	X	T530X477M006AH4097	04052-031	296	8.0	5.0	7.3	2.3
470.0	X	T530X477M006AH4096	04052-032	296	8.0	6.0	6.7	2.1
470.0	X	T530X477M006AH4095	04052-033	296	8.0	10.0	5.2	1.6
<b>10 Volt Rating at 105°C (6.6 Volt Rating at 125°C)</b>								
150.0	D	T530D157M010AH4096	04052-034	150	8.0	5.0	7.1	2.3
150.0	D	T530D157M010AH4095	04052-035	150	8.0	6.0	6.5	2.1
220.0	D	T530D227M010AH4096	04052-036	220	8.0	6.0	6.5	2.1
220.0	D	T530D227M010AH4095	04052-037	220	8.0	10.0	5.0	1.6
220.0	Y	T530Y227M010AH4095	04052-038	220	8.0	6.0	6.6	2.1
330.0	X	T530X337M010AH4097	04052-039	330	8.0	5.0	7.3	2.3
330.0	X	T530X337M010AH4096	04052-040	330	8.0	6.0	6.7	2.1
330.0	X	T530X337M010AH4095	04052-041	330	8.0	10.0	5.2	1.6

## Ordering Information

