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T550 Axial & T555 Surface Mount 105°C



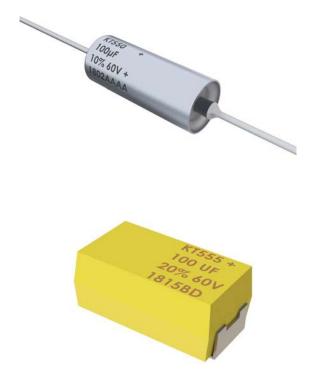
Overview

The KEMET T550 axial leaded and T555 surface mount polymer hermetically sealed (PHS) devices are tantalum capacitors with a Ta anode and ${\rm Ta_2O_5}$ dielectric. A conductive organic polymer replaces the traditionally used ${\rm MnO_2}$ or wet electrolyte as the cathode plate of the capacitor. This results in very low ESR and improved capacitance retention at high frequency and low temperature. The PHS device also exhibits a benign failure mode, which eliminates the case breach that can occur in wet tantalum capacitors. Additionally, this part may be operated at voltages up to 80% of rated voltage, with equivalent or better reliability than traditional ${\rm MnO_2}$ or wet tantalum capacitors operated at 50% of rated voltage.

PHS capacitors also offer higher ripple current handling capability and a lower ESR range than wet tantalums. With reduced ESR and enhanced capacitance retention at higher frequencies and low temperatures, these parts provide the highest total capacitance and the most economical solution for high power applications, all within an approximately 25% lighter package than the equivalent wet tantalum capacitor.

Benefits

- Includes F-Tech anode which eliminates hidden defects in the dielectric
- 100% simulated breakdown screening
- Maximum operating temperature of +105°C
- · DLA drawing 13030 qualified parts available
- Polymer cathode technology
- · Extremely low ESR
- High frequency and low temperature capacitance retention
- 100% constant voltage conditioning (240 hours)
- 100% surge current tested
- · Volumetrically efficient
- · Non-ignition failure mode
- Approximately 25% lighter than equivalent wet tantalum
- T550 case dimensions equivalent to MIL-PRF-39006/22/25/30/31
- T555 surface mount design (see dimensions diagram)



Applications

Typical applications include high voltage power management, such as buck/boost converters, filtering, hold-up capacitors, and other high ripple current applications.



Ordering Information

Т	550	В	107	M	025	Α	T	4251	
Capacitor Class	Series	Case Size	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Product Level	Termination Finish	Surge Option**	Packaging**
T = Tantalum	550 = Axial Leaded PHS 555 = Surface Mount PHS	В	First two digits represent significant figures. Third digit specifies number of zeros.	K = ±10% M = ±20%	006 = 6.3 008 = 8 010 = 10 015 = 15 025 = 25 030 = 30 035 = 35 040 = 40 050 = 50 060 = 60 075 = 75 100 = 100	A = N/A B* = DLA 13030 standard reliability T* = DLA 13030 high reliability	T = 100% tin (Sn)-plated H = Tin/lead (SnPb) solder coated (5% Pb minimum)	Blank = 25°C ±5°C, 10 cycles, after constant voltage conditioning (KEMET standard) 4251 = 10 cycles, -55°C and +85°C after constant voltage conditioning 4252 = 10 cycles, -55°C and +85°C before constant voltage conditioning	Blank = Sleeved 0100 = Unsleeved 7200 = Tape & Reel 7293 = Ammo 7443 = Ammo

^{*} Only available on select parts. Refer to part number table for details.

Ordering Information - DLA

13030	-01	K	A	S	L	В
Drawing Number	Dash Number	Capacitance Tolerance	Surge Current Testing	Insulation	Lead Length	Product Level
	See Part Number Table	K = ±10% M = ±20%	A = $+25^{\circ}$ C $\pm 5^{\circ}$ C, 10 cycles, after constant voltage conditioning (KEMET standard) B = -55° C, -5° C, $+0^{\circ}$ C and $+85^{\circ}$ C $\pm 5^{\circ}$ C after constant voltage conditioning. C = -55° C, -5° C, $+0^{\circ}$ C and $+85^{\circ}$ C $\pm 5^{\circ}$ C before constant voltage conditioning.	S = Sleeved U = Unsleeved	L = 1.50 inches (standard)	B = Standard reliability T = High reliability

^{*} Standard terminations for DLA part numbers is "H" (SnPb).

Performance Characteristics

Item	Performance Characteristics
Operating Temperature	-55°C to 105°C
Rated Capacitance Range	20 to 680 μF at 120 Hz/25°C *
Capacitance Tolerance	K tolerance (±10%), M tolerance (±20%)
Rated Voltage Range	6.3 – 100 V
DF (120 Hz at 25°C)	Refer to Part Number Electrical Specification Table
ESR (100 kHz at 25°C)	Refer to Part Number Electrical Specification Table
Leakage Current	Refer to Part Number Electrical Specification Table (at rated voltage up to +85°C and 78% of rated voltage applied at 105°C)
Packaging	T550 according to MIL-PRF-39006, T555 bulk

KEMET does not recommend storage above 85°C.

^{**} Only for T550 (Surge options/Packaging)

^{*} Additional case sizes and capacitance/voltage are under development.



Qualification - T550

Test Performed	Method Reference	Test Conditions
	Reliability	and Environmental Tests
AC Ripple Life at 85°C	MIL-PRF-39006	85°C, 40 kHz ripple current, 2,000 hours
85°C Life	MIL-PRF-39006	85°C, rated voltage, 2,000 hours
125°C Life	KEMET Standard	125°C, 0.66 x rated voltage, 2,000 hours
Surge Voltage	MIL-PRF-39006	85°C, 1.15 x rated voltage, 1,000 cycles, except delta cap shall be +10%/-20%
Surge Current	MIL-PRF-39003	+25 °C, 10 cycles (Option A), Option B available
Low Temperature Storage	MIL-PRF-39006	-62°C for 72 hours followed by 1 hour at 125°C
Reverse Voltage	KEMET Catalog	1 V for 8 hours maximum at 25°C, 1 V for 2 hours maximum at 70°C
	Physical, Me	chanical and Process Tests
Visual and Mechanical Examination (Internal and External)	MIL-PRF-39006	Case dimensions, marking
Terminal Strength	MIL-PRF-39006	Pull test and wire lead bend test
Resistance to Solvents	MIL-PRF-39006	Immersion in (3) solvents
Resistance to Soldering Heat	MIL-PRF-39006	Immersed to within 0.05 inch of capacitor body
Solderability	MIL-PRF-39006	Depth of insertion in flux and solder to within 0.062 inch of welded joint
Shock and Vibration	MIL-STD-202, Methods 213, 204	Shock Method 213, Condition I, 100 g peak, Vibration Method 204, Condition D, 20 g peak
Barometric Pressure (Reduced)	MIL-PRF-39006	150,000 feet for 5 minutes, voltage applied for 1 minute
Salt Atmosphere (Corrosion)	MIL-PRF-39006	Subjected to fine mist of salt solution
Moisture Resistance	MIL-PRF-39006	65°C at 6 volts
Dielectric Withstanding Voltage	MIL-PRF-39006	2,000 VDC, 60 seconds, sleeving examined for evidence of breakdown
Insulation Resistance	MIL-PRF-39003	500 VDC, 1 minute, insulation resistance not less than 1,000 M Ω
	Electr	ical Characterization
Temperature Stability	Reference MIL-PRF-39006	-55°C to 105°C
Frequency Scan	KEMET Standard	Impedance, ESR and capacitance versus frequency



Qualification – DLA Approval Inspection – Only for T550

Inspection	Test Name	DLA Requirement Paragraph	SS/Lot	
	Shock (specified pulse) ¹	3.3.4		
Croup I	Vibration, high frequency ¹	3.3.5	6 nor 0000 ci70	
Group I	Thermal shock	3.3.6	6 per case size	
	Salt atmosphere	3.3.7		
	Solderability	3.3.8		
	Terminal strength	3.3.9		
	Surge voltage ²	3.3.10		
Group II	Moisture resistance	3.3.11	12	
	Dielectric withstanding voltage	3.3.12		
	Insulation resistance	3.3.13		
	Low temperature (storage)	3.3.14		
C !!!	Stability at low and high temperatures	3.3.15	13	
Group III	Reverse voltage	3.3.23	12 per condition	
Group IV	Life at 85°C	3.3.16	102	
Group V	AC ripple life at 85°C	3.3.18	8 per case size	
Croup VI	Life at 105°C	3.3.17	40	
Group VI	Barometric pressure	3.3.20	40	
C=== \/!!	Resistance to solvents	3.3.21		
Group VII	Resistance to soldering heat	3.3.22	6	

¹ No failures for mechanical shock or vibration tests shall be permitted.

It may be necessary to perform initial measurements again, prior to the individual tests of Group II.

Product Level:

Inspection of product for delivery shall consist of:

B level	Group A inspection specified in Drawing 13030
T level	Group A and group B inspections specified in Drawing 13030

² Surge voltage change in capacitance limits are wider than those in some subsequent tests.



Qualification - T555

Test Performed	Method Reference	Test Conditions				
Reliability and Environmental Tests						
105°C Life	KEMET Standard	105°C, 0.78 x rated voltage, 2,000 hours				
Surge Voltage	MIL-PRF-39006	85°C, 1.15 x rated voltage, 1,000 cycles, except delta cap shall be +10%/–20%				
	Physical, Me	chanical and Process Tests				
Visual and Mechanical Examination (Internal and External)	MIL-PRF-39003	Case dimensions, marking				
Terminal Strength	MIL-PRF-39006	Pull test and wire lead bend test				
Resistance to Solvents	MIL-PRF-39006	Immersion in (3) solvents				
Resistance to Soldering Heat	MIL-PRF-39006	Immersed to within 0.05 inch of capacitor body				
Solderability	MIL-PRF-39006	Depth of insertion in flux and solder to within 0.062 inch of welded joint				
Shock and Vibration MIL-STD-202, Methods 213, 204		Shock Method 213, Condition I, 100 g peak, Vibration Method 204, Condition D, 20 g peak				
	Electr	rical Characterization				
Temperature Stability	Reference MIL-PRF-39006	-55°C to 105°C				

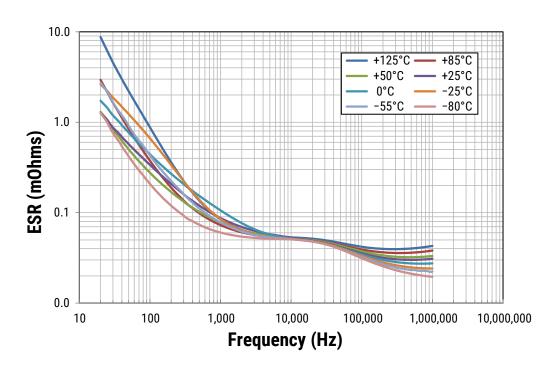
Environmental Compliance

RoHS compliant (6/6) according to Directive 2002/95/EC when ordered with 100% Sn. Epoxy compliant with UL 94 V-0.

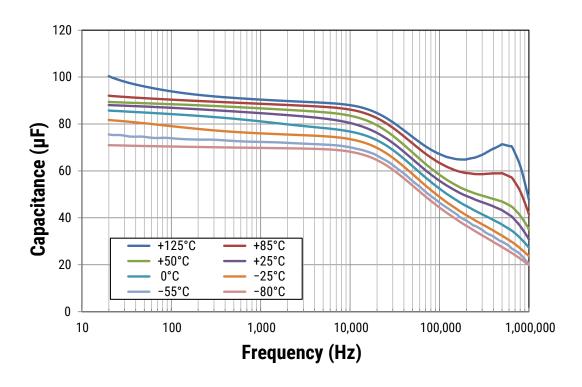


Electrical Characteristics

ESR vs. Frequency



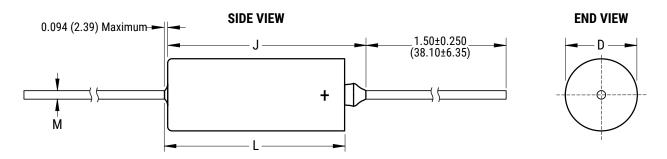
Capacitance vs. Frequency





Dimensions - Inches (Millimeters)

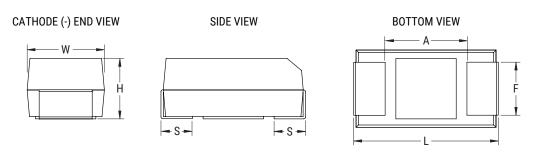
T550



Case Code	Case Size	Uninsulated Case				Insulated Case	
	MIL-PRF-39006	L ±0.031 (0.79)	D +0.016 (0.41) -0.015 (0.38)	M ±0.002 (0.05)	J maximum	D +0.016 (0.41) -0.015 (0.38)	L ± 0.031 (0.79)
В	T2	0.650 (16.51)	0.279 (7.09)	0.025 (0.64)	0.822 (20.88)	0.289 (7.34)	0.686 (17.42)

Dimensions - Millimeters

T555



Case Code						
	L ±0.5	W ±0.5	H ±0.5	F ±0.5	S minimum	Average
B Surface mount	24.5	8.5	9.1	4.2	3.0	5.54



Table 1A - Ratings & Part Number Reference

Rated Voltage	Rated Capacitance	Case Size	KEMET Part Number	DLA Drawing Number	DC Leakage	DF	Maximum ESR	Ripple Current
(V) 85°C	μF	KEMET/EIA	(See below for part options)	(See below for part options)	μΑ at 25°C Maximum/ 5 Minutes	% at 25°C 120 Hz Max	mΩ at 25°C 100 kHz	mArms at 85°C/40 kHz
6	140	В	T550B147(1)006A(3)	N/A	6.3	5.0	120	1,510
8	220	В	T550B227(1)008A(3)	N/A	13.2	5.0	120	1,510
8	680	В	T550B687(1)008A(3)	N/A	40.8	5.0	90	1,750
10	100	В	T550B107(1)010A(3)	N/A	7.5	5.0	140	1,400
10	180	В	T550B187(1)010A(3)	N/A	13.5	5.0	110	1,580
10	560	В	T550B567(1)010A(3)	N/A	42.0	5.0	90	1,750
15	70	В	T550B706(1)015A(3)	N/A	7.9	5.0	140	1,400
15	120	В	T550B127(1)015A(3)	N/A	13.5	5.0	110	1,580
15	390	В	T550B397(1)015A(3)	N/A	43.9	5.0	90	1,750
25	50	В	T550B506(1)025A(3)	N/A	9.4	5.0	170	1,275
25	100	В	T550B107(1)025(2)(3)	13030-01(1)(4)(5)L(6)	18.8	5.0	190	1,200
30	40	В	T550B406(1)030A(3)	N/A	9.0	5.0	170	1,275
30	68	В	T550B686(1)030A(3)	N/A	15.3	5.0	140	1,400
35	330	В	T550B337(1)035A(3)	N/A	86.6	10.0	180	1,240
40	100	В	T550B107(1)040(2)(3)	13030-02(1)(4)(5)L(6)	30.0	5.0	150	1,350
40	120	В	T550B127(1)040(2)(3)	13030-03(1)(4)(5)L(6)	36.0	5.0	120	1,510
50	25	В	T550B256(1)050A(3)	N/A	9.4	5.0	170	1,275
50	47	В	T550B476(1)050A(3)	N/A	17.6	5.0	150	1,350
50	100	В	T550B107(1)050(2)(3)	13030-04(1)(4)(5)L(6)	37.5	5.0	130	1,450
50	120	В	T550B127(1)050(2)(3)	13030-05(1)(4)(5)L(6)	45.0	5.0	90	1,750
60	20	В	T550B206(1)060A(3)	N/A	9.0	5.0	200	1,175
60	39	В	T550B396(1)060A(3)	N/A	17.6	5.0	160	1,310
60	100	В	T550B107(1)060(2)(3)	13030-06(1)(4)(5)L(6)	45.0	5.0	100	1,660
75	75	В	T550B756(1)075(2)(3)	13030-07(1)(4)(5)L(6)	42.2	5.0	110	1,580
100	25	В	T550B256(1)100(2)(3)	13030-08(1)(4)(5)L(6)	18.8	5.0	190	1,200

- (1) To complete KEMET part number, insert M for $\pm 20\%$ or K for $\pm 10\%$. Designates capacitance tolerance.
- (2) To complete KEMET part number, insert A = N/A, B = standard reliability, or T = high reliability.
- (3) To complete KEMET part number, insert T = 100% matte tin (Sn)-plated, H = standard solder coated (SnPb 5% Pb minimum). Designates termination finish.
- (4) To complete the DLA PIN number, insert the surge current testing option, $A = 25^{\circ}C$ after voltage aging, $B = -55^{\circ}C + 0^{\circ}C$ and $+85^{\circ}C$ after voltage aging or $C = -55^{\circ}C + 0^{\circ}C$ and $+85^{\circ}C$ before voltage aging.
- (5) To complete the DLA PIN number, insert the insulation option. S = Sleeved, U = Unseleeved.
- (6) To complete the DLA PIN number, insert the product level option. B = standard reliability or T = high reliability.

Refer to Ordering Information for additional detail.

Higher voltage ratings and tighter tolerance product including ESR may be substituted within the same size at KEMET's option. Voltage substitution will be marked with the higher voltage rating. The 85°C 40 kHz ripple limit is based on the maximum allowed power at 85°C and the maximum expected ESR at 40 kHz. For this calculation, the 100 kHz ESR limit is multiplied by a factor of 1.3 to account for the frequency dependence of ESR.



Table 1B - Ratings & Part Number Reference

Rated Voltage	Rated Capacitance	Case Size	KEMET Part Number	DC Leakage	DF	Maximum ESR	Ripple Current
(V) 85°C	μF	KEMET/EIA	(See below for part options)	μΑ at 25°C Maximum/ 5 Minutes	% at 25°C 120 Hz Max	mΩ at 25°C 100 kHz	mArms at 85°C/40 kHz
6.3	140	В	T555B147(1)006A(3)	6.3	5.0	120	1,510
8	220	В	T555B227(1)008A(3)	13.2	5.0	120	1,510
8	680	В	T555B687(1)008A(3)	40.8	5.0	90	1,750
10	100	В	T555B107(1)010A(3)	7.5	5.0	140	1,400
10	180	В	T555B187(1)010A(3)	13.5	5.0	110	1,580
10	560	В	T555B567(1)010A(3)	42.0	5.0	90	1,750
15	70	В	T555B706(1)015A(3)	7.9	5.0	140	1,400
15	120	В	T555B127(1)015A(3)	13.5	5.0	110	1,580
15	390	В	T555B397(1)015A(3)	43.9	5.0	90	1,750
25	50	В	T555B506(1)025A(3)	9.4	5.0	170	1,275
25	100	В	T555B107(1)025A(3)	18.8	5.0	190	1,200
30	40	В	T555B406(1)030A(3)	9.0	5.0	170	1,275
30	68	В	T555B686(1)030A(3)	15.3	5.0	140	1,400
35	330	В	T555B337(1)035A(3)	86.6	10.0	180	1,240
40	100	В	T555B107(1)040A(3)	30.0	5.0	150	1,350
40	120	В	T555B127(1)040A(3)	36.0	5.0	120	1,510
50	25	В	T555B256(1)050A(3)	9.4	5.0	170	1,275
50	47	В	T555B476(1)050A(3)	17.6	5.0	150	1,350
50	100	В	T555B107(1)050A(3)	37.5	5.0	130	1,450
50	120	В	T555B127(1)050A(3)	45.0	5.0	90	1,750
60	20	В	T555B206(1)060A(3)	9.0	5.0	200	1,175
60	39	В	T555B396(1)060A(3)	17.6	5.0	160	1,310
60	100	В	T555B107(1)060A(3)	45.0	5.0	100	1,660
75	75	В	T555B756(1)075A(3)	42.2	5.0	110	1,580
100	25	В	T555B256(1)100A(3)	18.8	5.0	190	1,200

⁽¹⁾ To complete KEMET part number, insert M for ±20% or K for ±10%. Designates capacitance tolerance.

Refer to Ordering Information for additional detail.

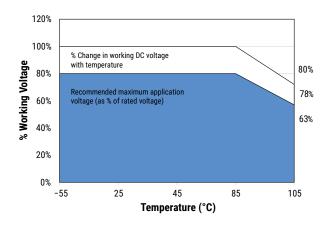
Higher voltage ratings and tighter tolerance product including ESR may be substituted within the same size at KEMET's option. Voltage substitution will be marked with the higher voltage rating. The 85°C 40 kHz ripple limit is based on the maximum allowed power at 85°C and the maximum expected ESR at 40 kHz. For this calculation, the 100 kHz ESR limit is multiplied by a factor of 1.3 to account for the frequency dependence of ESR.

⁽³⁾ To complete KEMET part number, insert T = 100% Matte Tin (Sn)-plated, H = Standard Solder coated (SnPb 5% Pb minimum). Designates termination finish.



Recommended Voltage Derating Guidelines

	-55°C to 85°C	85°C to 105°C
% Change in working DC voltage with temperature	V_R	78% of $V_{\scriptscriptstyle R}$
Recommended maximum application voltage (as % of rated voltage)	80% of V _R	63% of V _R



Ripple Current/Ripple Voltage

Permissible AC ripple voltage and current are related to equivalent series resistance (ESR) and the power dissipation capabilities of the device. Permissible AC ripple voltage that may be applied is limited by two criteria:

- 1. The positive peak AC voltage plus the DC bias voltage, if any, must not exceed the DC voltage rating of the capacitor.
- 2. The negative peak AC voltage in combination with bias voltage, if any, must not exceed the allowable limits specified for reverse voltage.

The maximum power dissipation by case size can be determined using the below left table. The maximum power dissipation rating stated in the table must be reduced with increasing environmental operating temperatures. Refer to the below right table for temperature compensation requirements.

Case Code		Maximum Power Dissipation (P _{max}) mWatts at 25°C with +60°C Rise
KEMET	MIL-PRF-39006/22/ 25/30/31 Case size	
B*	T2	715

^{*} Applies to TH and SMD

Temperature Compensation Multipliers for Maximum Power Dissipation (P_{max})		
T ≤ 45°C	45°C < T ≤ 85°C	85°C < T ≤ 105°C
1.00	0.70	0.10

T = Environmental temperature

Using the P_{max} of the device, the maximum allowable rms ripple current or voltage may be determined.

$$I(max) = \sqrt{P_{max}/R}$$

 $E(max) = Z \sqrt{P_{max}/R}$

I = rms ripple current (amperes)

E = rms ripple voltage (volts)

 P_{max} = maximum power dissipation (watts)

R = ESR at specified frequency (ohms)

Z = Impedance at specified frequency (ohms)

The maximum power dissipation rating must be reduced with increasing environmental operating temperatures. Refer to the Temperature Compensation Multiplier table for details.



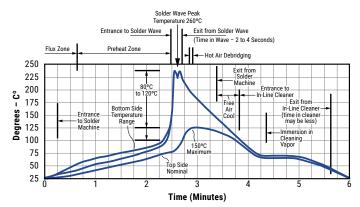
Reverse Voltage

Solid tantalum polymer capacitors are polar devices and may be permanently damaged or destroyed if connected with the wrong polarity. A small reverse voltage is permissible for time periods per the below table. KEMET can offer lower capacitance in this voltage with higher reverse voltage capability. In addition, we continue to improve our capability for this characteristic.

Temperature	Permissible Reverse Voltage	
25°C	1 V for 8 hours maximum	
70°C	1 V for 2 hours maximum	

Soldering Process

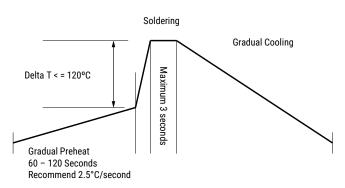
Optimum Solder Wave Profile



*T555 MUST be hand soldered only.

Hand Soldering (Manual)*





Mounting

WARNING: T555/T556 MUST BE HAND SOLDERED. THE USE OF STANDARD SMD PROCESSES FOR BOARD MOUNT WILL CAUSE IRREVERSIBLE DAMAGE TO THIS PRODUCT.

T555 SMD

In hand soldering tantalum polymer SMT capacitors, a manufacturer can utilize two (2) soldering methodologies that include pre-heating or no pre-heating of the capacitors. KEMET recommends utilizing a pre-heating technique. However, due to the large temperature gradient between the capacitors and the tip of the soldering iron, extreme caution should be exercised in this process. The thermal stresses from the large thermal gradients and the propensity of the operator touching the tip of the soldering iron to the device can lead to mechanical and/or electrical damage.

When manually soldering, it is important the soldering process be carefully monitored and carried out so that the temperature gradient falls within the recommended conditions above (profile).



Mounting (cont'd.)

Process 1 (with preheating)

- 1) Utilize 1.0 mm thread eutectic solder with soldering flux in the core. Either a rosin-based or non-activated flux is recommended.
- 2) The capacitors shall be pre-heated so that the temperature gradient between the devices and the tip of the soldering iron is Delta T < = 120°C or below.
- 3) The temperature of the solder iron tip should not exceed 270°C.
- 4) The required amount of solder shall be melted in advance on the soldering tip.
- 5) After soldering, the capacitors shall be cooled gradually at room ambient temperature. Forced air cooling is not recommended.

Process 2 (without preheating)

- 1) Soldering iron tip shall never directly touch the termination egress or the case body of the capacitors.
- 2) Lands are sufficiently pre-heated with a soldering iron tip before sliding the soldering iron tip to the terminal electrode of the capacitor for soldering.

Reference	Condition
Case Size	All
Temperature of soldering iron	270°C
Wattage	20 W maximum
Shape of soldering iron	3 mm maximum
Soldering time with soldering iron	3 seconds maximum

T550 Through-Hole

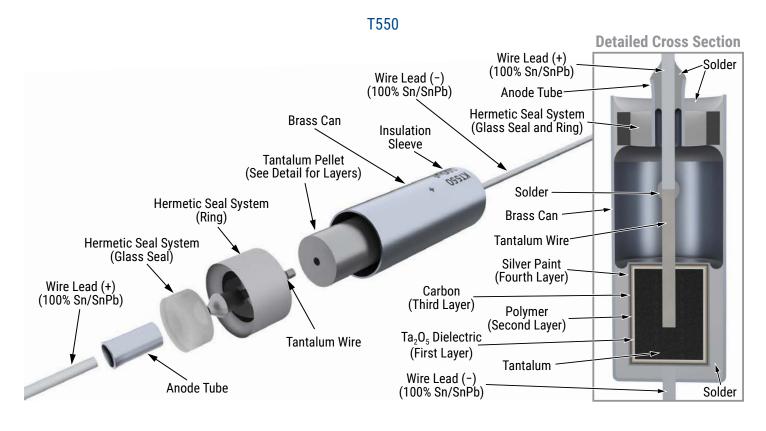
All encased capacitors will pass the resistance to soldering heat test of MIL-STD-202, Method 210, Condition C. This test simulates wave solder of topside board mount product. This demonstration of resistance to solder heat is in accordance with what is believed to be the industry standard. More severe treatment must be considered reflective of an improper soldering process. The above figure is a recommended solder wave profile for both axial and radial leaded solid tantalum capacitors.

Additional mounting recommendations (SMD and Through-Hole):

In order to increase the board mount integrity of KEMET's Polymer Hermetic Sealed (SMD or TH version) relative to mechanical shock and vibration, KEMET recommends the use of an adhesive between the component and the PCB. This is defined in the Space Application Electronic Hardware Addendum to J-STD-001 (Requirements for Solder Electrical and Electronic Assemblies.)



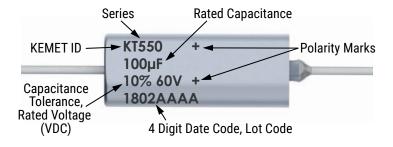
Construction



Capacitor Marking

T550

B Case



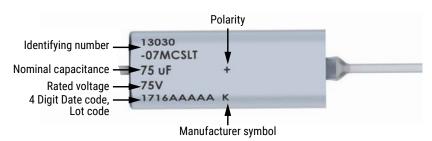
Date Code	3 Digit	4 Digit
Year	5 = 2015 6 = 2016 7 = 2017 8 = 2018 9 = 2019	15 = 2015 16 = 2016 17 = 2017 18 = 2018 19 = 2019
Week	01 = 1 st week of the year to 52 = 52 nd week of the year	



Capacitor Marking (cont'd.)

T550 - Military Format

B Case



T555



Date Code	3 Digit	4 Digit
Year	5 = 2015 6 = 2016 7 = 2017 8 = 2018	15 = 2015 16 = 2016 17 = 2017 18 = 2018
	9 = 2019	19 = 2019
Week	01 = 1 st week of the year to 52 = 52 nd week of the year	



Storage

Tantalum hermetically sealed and SMD capacitors should be stored in normal working environments. While the capacitors themselves are quite robust in other environments, solderability will be degraded by exposure to high temperatures, high humidity, corrosive atmospheres, and long term storage. In addition, packaging materials will be degraded by high temperature – reels may soften or warp and tape peel force may increase. KEMET recommends that maximum storage temperature not exceed 40°C and maximum storage humidity not exceed 60% relative humidity. Temperature fluctuations should be minimized to avoid condensation on the parts and atmospheres should be free of chlorine and sulphur bearing compounds. For optimized solderability capacitors stock should be used promptly, preferably within three years of receipt.

Packaging

Case Size		Diagon	
KEMET	EIA	Pieces	
B Through-hole	T2	20 per tray	
B Surface mount	-	100 per box	

Weight

Case Size		Average Weight
KEMET	EIA	(grams)
B Through-hole	T2	3.63
B Surface mount	-	5.54



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Although all product-related warnings, cautions and notes must be observed, the customer should not assume that all safety measures are indicted or that other measures may not be required.