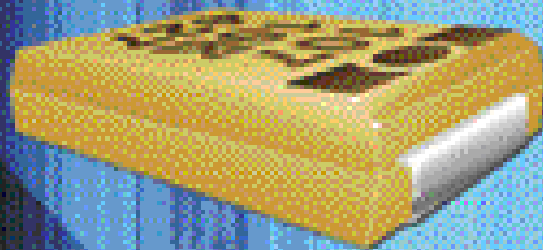
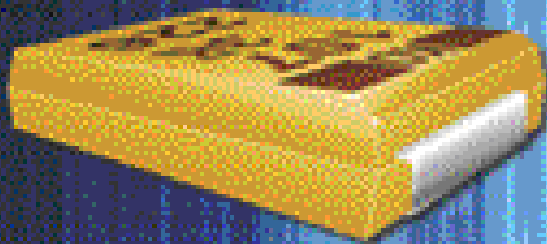
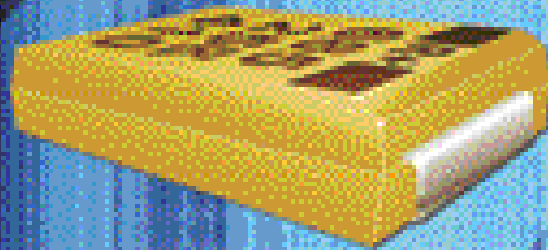


**KEMET**



*Tantalum  
Surface  
Mount  
Capacitor  
Low Profile*

**KEMET**

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F3109A 10/05





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### NOTICE

Although the information in this catalog has been carefully checked for accuracy, and is believed to be correct and current, no warranty, either expressed or implied, is made as to either its applicability to, or its compatibility with specific requirements; nor does KEMET Electronics Corporation assume any responsibility for correctness of this information, nor for damages consequent to its use. All design characteristics, specifications, tolerance, and the like are subject to change without notice.

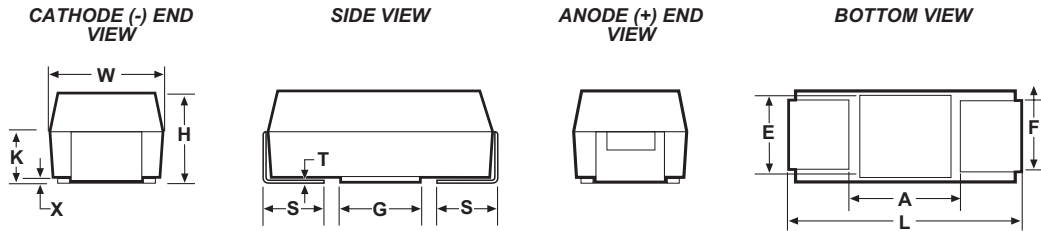
The KEMET website ([www.kemet.com](http://www.kemet.com)) should be consulted for the very latest information on design characteristics, specifications, applications, and newly-released products, since previously-issued printed information may not be current.

Any capacitors misapplied may fail and thereby damage other circuit components. Please refer to application notes and recommendations in this catalog for a complete description of capacitor characteristics.

### FEATURES

Meets or exceeds EIA Standard 535BAAC	Capacitance: 1.0µF to 330µF
Taped and Reeled per EIA 481-1	Tolerance: ±10%, ±20%
Symmetrical, Compliant Terminations	Voltage: 2.5 - 50 VDC
Optional Gold-plated Terminations	Halogen Free Epoxy
Laser-marked Case	100% Surge Current test on U, V case sizes
Refer to KEMET F3102 for performance characteristics and page 16 of this catalog component packaging	RoHS Compliant - Lead Free Terminations (See <a href="http://www.kemet.com">www.kemet.com</a> for transition information)

### CAPACITOR OUTLINE DRAWING

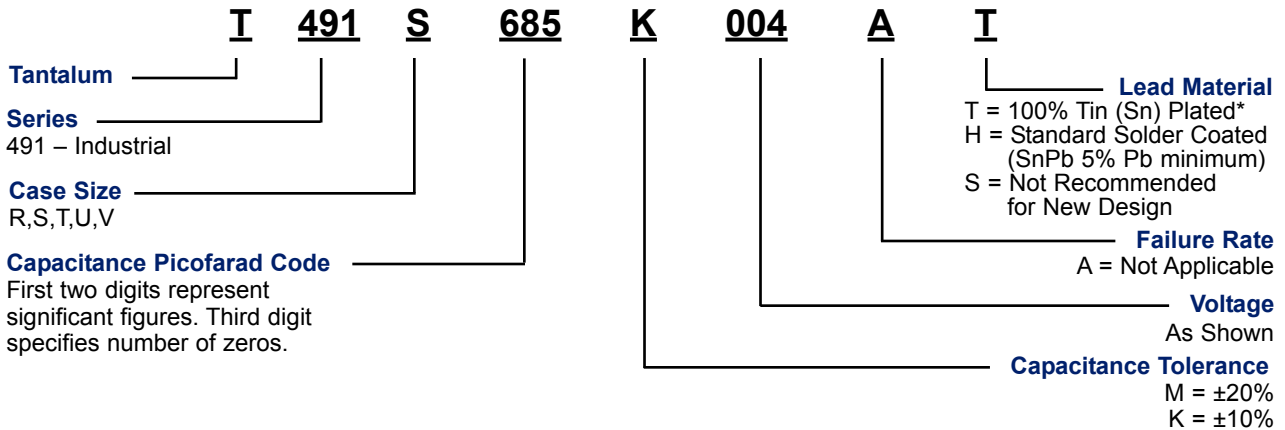


### DIMENSIONS – Millimeters (inches)

Case Size		Component										
KEMET	EIA	L*	W*	H Max.	K Min.	F* ±0.1	S* ± 0.3	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)	0.3 (.012)	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)	0.3 (.012)	1.2 (.047)	0.8 (.031)	0.05 (.002)	0.13 (.005)	1.4 (.055)	1.1 (.043)	1.3 (.051)
T	3528-12	3.5 ± 0.2 (.138 ± .008)	2.8 ± 0.2 (.110 ± .008)	1.2 (.047)	0.3 (.012)	2.2 (.087)	0.8 (.031)	0.05 (.002)	0.13 (.005)	2.1 (.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)	0.5 (.020)	2.2 (.087)	1.3 (.051)	0.05 (.002)	0.13 (.005)	3.1 (.122)	2.8 (.110)	2.4 (.094)
V	7343-20	7.3 ± 0.3 (.287 ± .012)	4.3 ± 0.3 (.169 ± .012)	2.0 (.079)	0.09 (.035)	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.  
2. (Ref) Dimensions provided for reference only.

### KEMET ORDERING INFORMATION



\*Refer to [www.kemet.com](http://www.kemet.com) for lead material transition to Pb free.

**T491 SERIES LOW PROFILE SURFACE MOUNT CAPACITORS**  
**Industrial Grade**



**PART NUMBER REFERENCE**

Capacitance μF	Case Size	KEMET Part Number	DC Leakage μA @ 25°C Max	DF % @ +25°C 120 Hz Max	ESR Ω @ +25°C 100 kHz Max
<b>2.5 Volt Rating at +85°C (1.7 Volt Rating at +125°C)</b>					
100.0	T	T491T107(1)2R5A(2)	2.5	24.0	3.9
<b>4 Volt Rating at +85°C (2.7 Volt Rating at +125°C)</b>					
#6.8	*S	T491S685(1)004A(2)	0.5	6.0	15.0
#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	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	*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	U	T491U336(1)004A(2)	1.3	6.0	1.8
#33.0	*T	T491T336(1)004A(2)	1.3	8.0	5.0
47.0	U	T491U476(1)004A(2)	1.9	6.0	1.8
#47.0	*T	T491T476M004A(2)	1.9	12.0	6.0
#68.0	*U	T491U686(1)004A(2)	2.7	6.0	1.8
#100.0	*U	T491U107(1)004A(2)	4.0	10.0	1.8
†100.0	*T	T491T107M004A(2)	4.0	30.0	5.0
150.0	V	T491V157(1)004AS	6.0	8.0	0.7
#220.0	*V	T491V227(1)004A(2)	8.8	8.0	0.7
†330.0	*V	T491V337(1)004A(2)	13.2	12.0	0.7
<b>**6 Volt Rating at +85°C (4 Volt Rating at +125°C)</b>					
2.2	R	T491R225(1)006A(2)	0.5	6.0	25.0
#4.7	*S	T491S475(1)006A(2)	0.5	6.0	15.0
#6.8	*S	T491S685(1)006A(2)	0.5	6.0	15.0
#6.8	*R	T491R685(1)006A(2)	0.5	8.0	15.0
10.0	T	T491T106(1)006A(2)	0.6	6.0	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
#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	U	T491U226(1)006A(2)	1.4	6.0	1.8
#22.0	*T	T491T226(1)006A(2)	1.4	8.0	5.0
33.0	U	T491U336(1)006A(2)	2.0	6.0	1.8
#33.0	*T	T491T336(1)006A(2)	2.0	12.0	6.0
#47.0	*U	T491U476(1)006AS	2.9	6.0	1.8
#47.0	*T	T491T476(1)006A(2)	3.0	24.0	4.4
#68.0	*U	T491U686(1)006A(2)	4.1	10.0	1.8
100.0	V	T491V107(1)006A(2)	6.0	8.0	0.7
#100.0	*U	T491U107(1)006A(2)	6.0	10.0	1.8
#150.0	*V	T491V157(1)006A(2)	9.0	8.0	0.7
#220.0	*V	T491V227(1)006A(2)	13.2	12.0	0.7
<b>10 Volt Rating at +85°C (7 Volt Rating at +125°C)</b>					
3.3	S	T491S335(1)010A(2)	0.5	6.0	15.0
#3.3	*R	T491R335(1)010A(2)	0.3	8.0	15.0
#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	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	*T	T491T106(1)010A(2)	1.0	6.0	5.0
#10.0	*S	T491S106(1)010A(2)	1.0	10.0	15.0

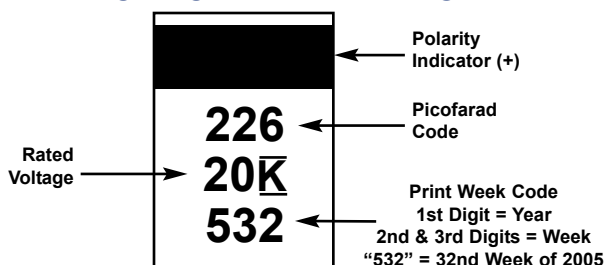
\* Extended Values    \*\* 6 Volt product equivalent to 6.3 volt product  
 (1) To complete KEMET part number, insert M for ±20% tolerance or K for ±10% tolerance.  
 (2) To complete KEMET part number, insert lead material designation from page 4.  
 Higher voltage rating, lower ESR and tighter capacitance tolerance product may be substituted within the same size at KEMET'S option. Voltage substitutions will be marked with the higher voltage rating.  
 # Maximum Capacitance Change @ 125°C = +15%  
 † Maximum Capacitance @ 125°C = +20%

### PART NUMBER REFERENCE

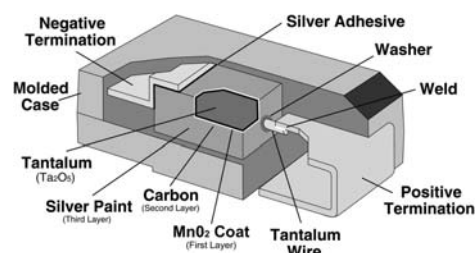
Capacitance $\mu\text{F}$	Case Size	KEMET Part Number	DC Leakage $\mu\text{A}$ @ 25°C Max	DF % @ +25°C 120 Hz Max	ESR $\Omega$ @ +25°C 100 kHz Max
<b>10 Volt Rating at +85°C (7 Volt Rating at +125°C) cont.</b>					
15.0	U	T491U156(1)010A(2)	1.5	6.0	1.8
#15.0	*T	T491T156(1)010A(2)	1.5	8.0	5.0
22.0	U	T491U226(1)010A(2)	2.2	6.0	1.8
#22.0	*T	T491T226(1)010A(2)	2.2	12.0	8.0
33.0	V	T491V336(1)010A(2)	3.3	6.0	0.7
#33.0	*U	T491U336(1)010A(2)	3.3	6.0	1.8
47.0	V	T491V476(1)010A(2)	4.7	6.0	0.7
#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	T491U686(1)010A(2)	6.8	10.0	1.8
#100.0	*V	T491V107(1)010A(2)	10.0	8.0	0.7
#150.0	*V	T491V157(1)010A(2)	15.0	8.0	0.7
#220.0	*V	T491V227(1)010A(2)	22.0	12.0	0.7
<b>16 Volt Rating at +85°C (10 Volt Rating at +125°C)</b>					
2.2	*S	T491S225(1)016A(2)	0.5	6.0	15.0
#2.2	*R	T491R225(1)016A(2)	0.5	8.0	25.0
4.7	T	T491T475(1)016A(2)	0.8	6.0	5.0
10.0	U	T491U106(1)016A(2)	1.6	6.0	1.8
#10.0	*T	T491T106(1)016A(2)	1.6	8.0	8.0
15.0	U	T491U156(1)016A(2)	2.4	6.0	1.8
#22.0	*U	T491U226(1)016A(2)	3.6	10.0	3.0
#33.0	*U	T491U336(1)016A(2)	5.3	12.0	3.0
47.0	V	T491V476(1)016A(2)	7.5	6.0	0.7
68.0	*V	T491V686(1)016A(2)	10.9	6.0	0.7
†100.0	*V	T491V107(1)016A(2)	16.0	12.0	0.7
<b>20 Volt Rating at +85°C (13 Volt Rating at + 125°C)</b>					
1.0	S	T491S105(1)020A(2)	0.5	6.0	18.0
#1.0	R	T491R105(1)020A(2)	0.5	6.0	20.0
1.5	S	T491S155(1)020A(2)	0.5	6.0	15.0
3.3	*T	T491T335(1)020A(2)	0.7	6.0	5.0
6.8	U	T491U685(1)020A(2)	1.4	6.0	1.9
10.0	U	T491U106(1)020A(2)	2.0	6.0	1.8
22.0	V	T491V226(1)020A(2)	4.4	6.0	0.7
†33.0	*V	T491V336(1)020A(2)	6.6	8.0	0.7
<b>25 Volt Rating at +85°C (17 Volt Rating at +125°C)</b>					
22.0	*V	T491V226(1)025A(2)	5.5	6.0	0.7
<b>35 Volt Rating at +85°C (23 Volt Rating at +125°C)</b>					
#10.0	*V	T491V106(1)035A(2)	3.5	6.0	2.0
<b>50 Volt Rating at +85°C (33 Volt Rating at + 125°C)</b>					
1.0	*V	T491V105(1)050A(2)	0.5	4.0	6.0

\* Extended Values \*\* 6 Volt product equivalent to 6.3 volt product  
 (1) To complete KEMET part number, insert M for  $\pm 20\%$  tolerance or K for  $\pm 10\%$  tolerance.  
 (2) To complete KEMET part number, insert lead material designation from page 4.  
 Higher voltage rating, lower ESR and tighter capacitance tolerance product may be substituted within the same size at KEMET's option. Voltage substitutions will be marked with the higher voltage rating.  
 # Minimum Capacitance Change @ 125°C = +15% † Maximum Capacitance @ 125°C = +20%

### COMPONENT MARKING



### CONSTRUCTION



# T494 SERIES LOW PROFILE SURFACE MOUNT CAPACITORS

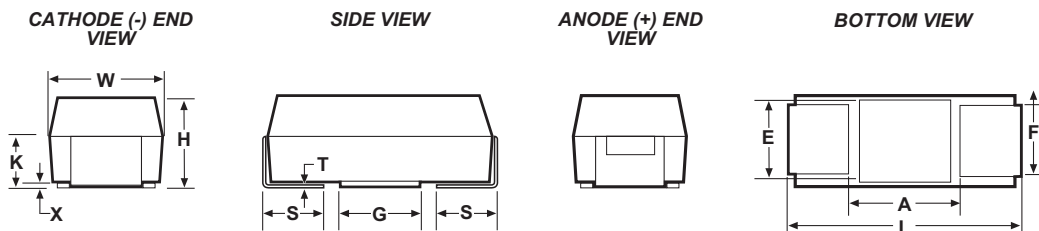
## Low ESR, Industrial Grade



### FEATURES

Low ESR Values EIA 535BAAC sizes	Capacitance: 1.0 $\mu$ F to 330 $\mu$ F
Taped and Reeled per EIA 481-1	Tolerance: $\pm$ 10%, $\pm$ 20%
Symmetrical, Compliant Terminations	Voltage: 2.5 - 50 VDC
Optional Gold-plated Terminations	Halogen Free Epoxy
Laser-marked Case	100% Surge Current test on U, V case sizes
Refer to KEMET F3102 for performance characteristics and page 16 of this catalog component packaging	RoHS Compliant - Lead Free Terminations (See <a href="http://www.kemet.com">www.kemet.com</a> for transition information)

### CAPACITOR OUTLINE DRAWING

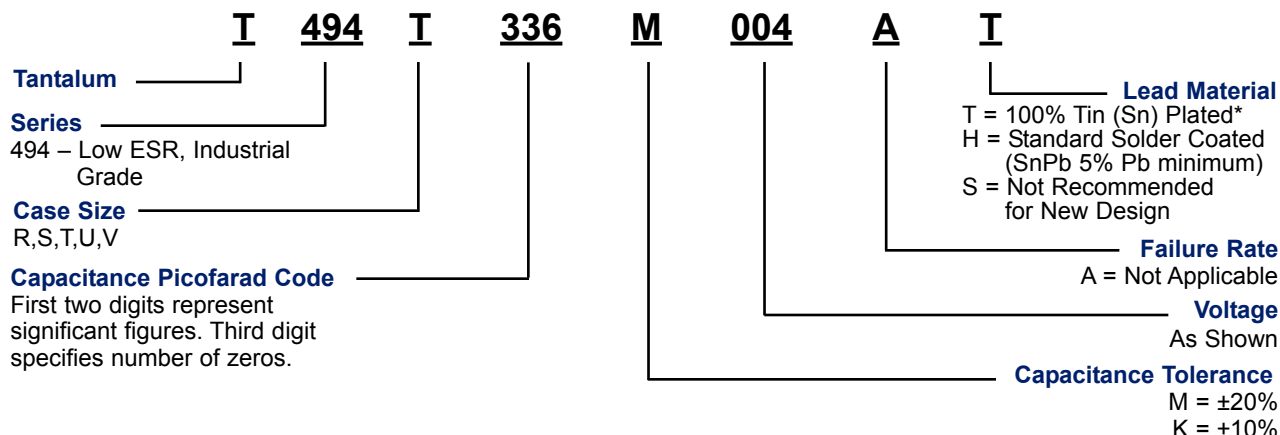


### DIMENSIONS – Millimeters (inches)

Case Size		Component										
KEMET	EIA	L*	W*	H Max.	K Min.	F* $\pm$ 0.1	S* $\pm$ 0.3	X (Ref)	T (Ref)	A (Min)	G (Ref)	E (Ref)
R	2012-12	2.0 $\pm$ 0.2 (.079 $\pm$ .008)	1.3 $\pm$ 0.2 (.051 $\pm$ .008)	1.2 (.047)	0.3 (.012)	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 $\pm$ 0.2 (.126 $\pm$ .008)	1.6 $\pm$ 0.2 (.063 $\pm$ .008)	1.2 (.047)	0.3 (.012)	1.2 (.047)	0.8 (.031)	0.05 (.002)	0.13 (.005)	1.4 (.055)	1.1 (.043)	1.3 (.051)
T	3528-12	3.5 $\pm$ 0.2 (.138 $\pm$ .008)	2.8 $\pm$ 0.2 (.110 $\pm$ .008)	1.2 (.047)	0.3 (.012)	2.2 (.087)	0.8 (.031)	0.05 (.002)	0.13 (.005)	2.1 (.083)	1.8 (.071)	2.2 (.087)
U	6032-15	6.0 $\pm$ 0.3 (.236 $\pm$ .012)	3.2 $\pm$ 0.3 (.126 $\pm$ .012)	1.5 (.059)	0.5 (.020)	2.2 (.087)	1.3 (.051)	0.05 (.002)	0.13 (.005)	3.1 (.122)	2.8 (.110)	2.4 (.094)
V	7343-20	7.3 $\pm$ 0.3 (.287 $\pm$ .012)	4.3 $\pm$ 0.3 (.169 $\pm$ .012)	2.0 (.079)	0.09 (.035)	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.  
2. (Ref) Dimensions provided for reference only.

### KEMET ORDERING INFORMATION



\*Refer to [www.kemet.com](http://www.kemet.com) for lead material transition to Pb free.



# T494 SERIES LOW PROFILE SURFACE MOUNT CAPACITORS

Low ESR, Industrial Grade

## PART NUMBER REFERENCE

Capacitance µF	Case Size	KEMET Part Number	DC Leakage µA @ 25°C Max	DF % @ +25°C 120 Hz Max	ESR Ω @ +25°C 100 kHz Max
<b>2.5 Volt Rating at +85°C (1.7 Volt Rating at +125°C)</b>					
100.0	T	T494T107(1)2R5A(2)	2.5	24	3.5
<b>4 Volt Rating at +85°C (2.7 Volt Rating at +125°C)</b>					
6.8	S	T494S685(1)004A(2)	0.5	6.0	7.0
#10.0	*S	T494S106(1)004A(2)	0.5	6.0	9.0
#10.0	*R	T494R106M004A(2)	0.5	8.0	6.0
15.0	T	T494T156(1)004A(2)	0.6	6.0	2.0
#15.0	*S	T494S156M004A(2)	0.6	10.0	9.0
#22.0	*S	T494S226M004A(2)	0.9	10.0	8.0
#22.0	*T	T494T226(1)004A(2)	0.9	6.0	2.5
33.0	U	T494U336(1)004A(2)	1.3	6.0	0.6
#33.0	*T	T494T336M004A(2)	1.3	8.0	3.5
47.0	U	T494U476(1)004A(2)	1.9	6.0	0.6
#47.0	T	T494T476M004A(2)	1.9	12.0	4.0
#68.0	*U	T494U686(1)004A(2)	2.7	6.0	0.6
#100.0	*U	T494U107(1)004A(2)	4.0	10.0	1.0
†100.0	*T	T494T107M004A(2)	4.0	30.0	4.5
150.0	V	T494V157(1)004A(2)	6.0	8.0	0.2
#220.0	*V	T494V227(1)004A(2)	8.8	8.0	0.3
†330.0	*V	T494V337(1)004A(2)	13.2	12.0	0.3
<b>**6 Volt Rating at +85°C (4 Volt Rating at +125°C)</b>					
2.2	R	T494R225(1)006A(2)	0.5	6.0	20.0
4.7	S	T494S475(1)006A(2)	0.5	6.0	8.0
#6.8	*S	T494S685(1)006A(2)	0.5	6.0	9.0
#6.8	*R	T494R685(1)006A(2)	0.5	8.0	10.0
10.0	T	T494T106(1)006A(2)	0.6	6.0	1.2
#10.0	*S	T494S106M006A(2)	0.6	10.0	9.0
#10.0	*R	T494R106M006A(2)	0.6	8.0	6.0
#15.0	*T	T494T156(1)006A(2)	0.9	6.0	2.5
#15.0	S	T494S156M006A(2)	0.9	10.0	10.0
22.0	U	T494U226(1)006A(2)	1.4	6.0	0.8
#22.0	*T	T494T226M006A(2)	1.4	8.0	3.5
33.0	U	T494U336(1)006A(2)	2.0	6.0	0.6
#33.0	T	T494T336M006A(2)	2.0	12.0	4.0
#47.0	*U	T494U476(1)006A(2)	2.9	6.0	0.6
47.0	*T	T494T476(1)006A(2)	3.0	24.0	4.0
#68.0	*U	T494U686(1)006A(2)	4.1	10.0	1.0
100.0	V	T494V107(1)006A(2)	6.0	8.0	0.2
#100.0	U	T494U107M006A(2)	6.0	10.0	1.2
#150.0	*V	T494V157(1)006A(2)	9.0	8.0	0.3
#220.0	*V	T494V227M006A(2)	13.2	12.0	0.3
<b>10 Volt Rating at +85°C (7 Volt Rating at +125°C)</b>					
3.3	S	T494S335(1)010A(2)	0.5	6.0	9.0
#3.3	*R	T494R335(1)010A(2)	0.3	8.0	10.0
#4.7	*S	T494S475(1)010A(2)	0.5	6.0	9.0
#4.7	*R	T494R475M010A(2)	0.5	8.0	8.0
6.8	T	T494T685(1)010A(2)	0.7	6.0	2.0
#6.8	*S	T494S685M010A(2)	0.7	10.0	9.0
#10.0	*T	T494T106(1)010A(2)	1.0	6.0	3.5
#10.0	S	T494S106M010A(2)	1.0	10.0	12.0

\* Extended Values \*\* 6 Volt product equivalent to 6.3 volt product

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

(2) To complete KEMET part number, insert lead material designation from page 7.

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

# Maximum Capacitance Change @ 125°C = +15% † Maximum Capacitance @ 125°C = +20%



# T494 SERIES LOW PROFILE SURFACE MOUNT CAPACITORS

## Low ESR, Industrial Grade

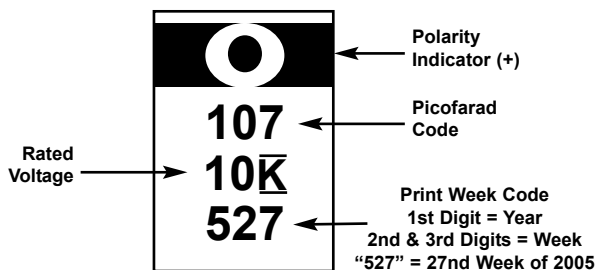


### PART NUMBER REFERENCE

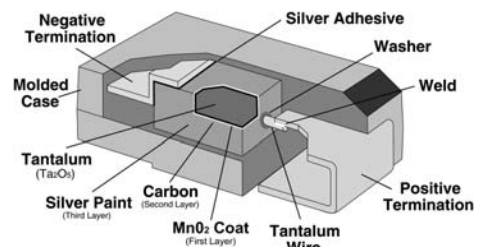
Capacitance μF	Case Size	KEMET Part Number	DC Leakage μA @ 25°C Max	DF % @ +25°C 120 Hz Max	ESR Ω @ +25°C 100 kHz Max
<b>10 Volt Rating at +85°C (7 Volt Rating at +125°C) cont.</b>					
15.0	U	T494U156(1)010A(2)	1.5	6.0	0.8
#15.0	*T	T494T156M010A(2)	1.5	8.0	3.5
22.0	U	T494U226(1)010A(2)	2.2	6.0	0.8
22.0	T	T494T226(1)010A(2)	2.2	12.0	6.0
33.0	V	T494V336(1)010A(2)	3.3	6.0	0.30
#33.0	*U	T494U336(1)010A(2)	3.3	6.0	0.60
47.0	V	T494V476(1)010A(2)	4.7	6.0	0.30
#47.0	*U	T494U476(1)010A(2)	4.7	10.0	1.20
68.0	V	T494V686(1)010A(2)	6.8	6.0	0.30
#68.0	U	T494U686M010A(2)	6.8	10.0	1.20
#100.0	*V	T494V107(1)010A(2)	10.0	8.0	0.40
#150.0	V	T494V157M010A(2)	15.0	8.0	0.30
#220.0	*V	T494V227(1)010A(2)	22.0	12.0	0.50
<b>16 Volt Rating at +85°C (10 Volt Rating at + 125°C)</b>					
2.2	*S	T494S225(1)016A(2)	0.5	6.0	10.0
#2.2	*R	T494R225M016A(2)	0.5	8.0	20.0
4.7	T	T494T475(1)016A(2)	0.8	6.0	3.0
10.0	U	T494U106(1)016A(2)	1.6	6.0	1.0
#10.0	*T	T494T106(1)016A(2)	1.6	8.0	6.0
15.0	U	T494U156(1)016A(2)	2.4	6.0	0.8
#22.0	*U	T494U226(1)016A(2)	3.6	10.0	1.8
#33.0	*U	T494U336(1)016A(2)	5.3	12.0	2.2
47.0	V	T494V476(1)016A(2)	7.5	6.0	0.3
#68.0	*V	T494V686(1)016A(2)	10.9	6.0	0.5
†100.0	*V	T494V107(1)016A(2)	16.0	12.0	0.5
<b>20 Volt Rating at +85°C (13 Volt Rating at +125°C)</b>					
1.0	S	T494S105(1)020A(2)	0.5	6.0	10.0
†1.0	R	T494R105(1)020A(2)	0.2	6.0	15.0
1.5	S	T494S155(1)020A(2)	0.5	6.0	9.0
3.3	*T	T494T335(1)020A(2)	0.7	6.0	4.0
6.8	U	T494U685(1)020A(2)	1.4	6.0	1.4
10.0	U	T494U106(1)020A(2)	2.0	6.0	0.8
22.0	V	T494V226(1)020A(2)	4.4	6.0	0.4
†33.0	V	T494V336(1)020A(2)	6.6	8.0	0.4
<b>25 Volt Rating at +85°C (17 Volt Rating at +125°C)</b>					
22.0	*V	T494V226(1)025A(2)	5.5	6.0	0.5
<b>35 Volt Rating at +85°C (23 Volt Rating at +125°C)</b>					
#10.0	*V	T494V106(1)035A(2)	3.5	6.0	0.8
<b>50 Volt Rating at +85°C (33 Volt Rating at +125°C)</b>					
#1.0	*V	T494V105M050A(2)	0.5	4.0	4.0

\* Extended Values \*\* 6 Volt product equivalent to 6.3 volt product  
 (1) To complete KEMET part number, insert M for ±20% tolerance or K for ±10% tolerance.  
 (2) To complete KEMET part number, insert lead material designation from page 7.  
 Higher voltage rating, lower ESR and tighter capacitance tolerance product may be substituted within the same size at KEMET's option. Voltage substitutions will be marked with the higher voltage rating.  
 # Maximum Capacitance Change @ 125°C = +15% † Maximum Capacitance @ 125°C = +20%

### COMPONENT MARKING



### CONSTRUCTION





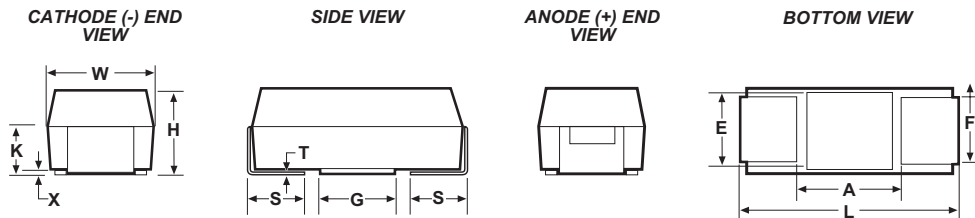
# T495 SERIES LOW PROFILE SURFACE MOUNT CAPACITORS

## Low ESR, Surge Robust

### FEATURES

Meets or Exceeds EIA Standard 535BAAC	Capacitance: 10.0µF to 220.0µF
Taped and Reeled per EIA 481-1	Tolerance: ±10%, ±20%
Symmetrical, Compliant Terminations	Voltage: 2.5 - 16 VDC
100% accelerated steady-state aging	Low Equivalent Series Inductance (<2.5nH ESL)
100% Surge Current test	Precision-molded, laser marked case
Refer to KEMET F3102 for performance characteristics and page 16 of this catalog for component packaging	RoHS Compliant - Lead Free Terminations (See www.kemet.com for transition information)

### CAPACITOR OUTLINE DRAWING

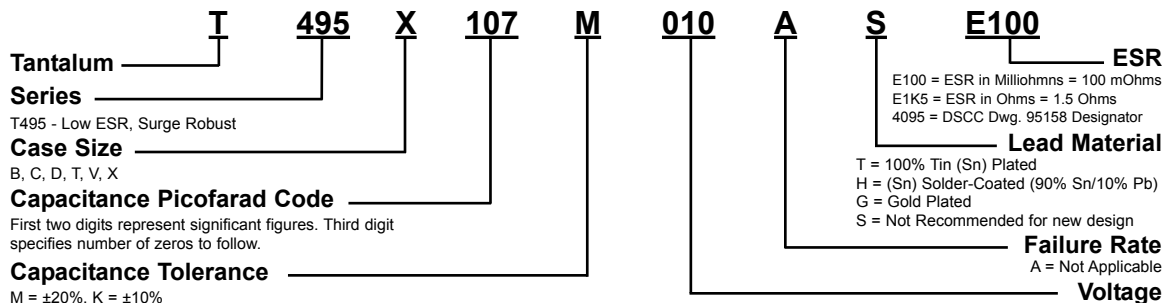


### DIMENSIONS – Millimeters (inches)

Case Size		Component										
KEMET	EIA	L*	W*	H Max.	K Min.	F* ±0.1	S* ± 0.3	X (Ref)	T (Ref)	A (Min)	G (Ref)	E (Ref)
T	3528-12	3.5 ± 0.2 (.138 ± .008)	2.8 ± 0.2 (.110 ± .008)	1.2 (.047)	0.3 (.012)	2.2 (.087)	0.8 (.031)	0.05 (.002)	0.13 (.005)	2.1 (.083)	1.8 (.071)	2.2 (.087)
V	7343-20	7.3 ± 0.3 (.287 ± .012)	4.3 ± 0.3 (.169 ± .012)	2.0 (.079)	0.09 (.035)	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.  
2. (Ref) Dimensions provided for reference only.

### KEMET ORDERING INFORMATION



\*Refer to www.kemet.com for lead material transition to Pb free.

# T495 SERIES LOW PROFILE SURFACE MOUNT CAPACITORS

## Low ESR, Surge Robust

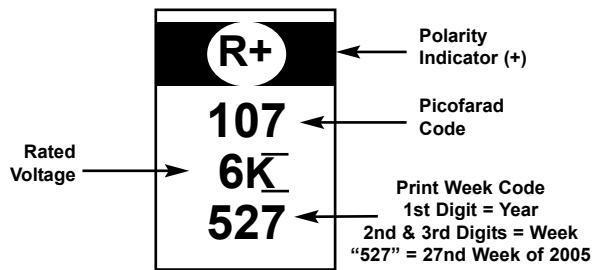


### PART NUMBER REFERENCE

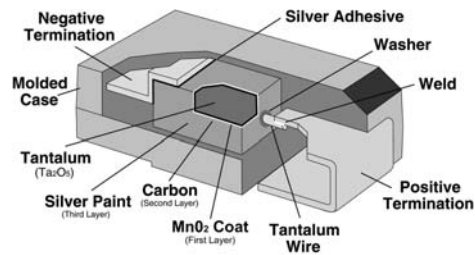
Capacitance $\mu\text{F}$	Case Size	KEMET Part Number	DC Leakage $\mu\text{A}$ @ 25°C Max	DF% @ 25°C 120 Hz Max	ESR $\text{M}\Omega$ @ 25°C 100 kHz Max	Ripple Current mA rms at 25°C, 100 kHz Max		
						25°C	85°C	125°C
<b>2.5 Volt Rating @ +85°C (1.7 Volt Rating at +125°C)</b>								
100.0	T	T495T107M2R5A(2)E3K0	2.5	24.0	3000	153	137	61
<b>6/6.3 Volt Rating @ +85°C (4 Volt Rating at +125°C)</b>								
100.0	V	T495V107(1)006A(2)E150	6.0	8.0	150	913	822	365
<b>10 Volt Rating @ +85°C (7 Volt Rating at +125°C)</b>								
68.0	V	T495V686(1)010A(2)E140	6.8	6.0	140	945	850	378
100.0	V	T495V107(1)010A(2)E150	10.0	8.0	150	913	822	365
150.0	V	T495V157(1)010A(2)E100	15.0	8.0	100	1118	1006	447
150.0	V	T495V157(M)010A(2)E150	15.0	8.0	150	913	822	365
220.0	*V	T495V227(1)010A(2)E150	22.0	12.0	150	913	822	365
<b>16 Volt Rating @ +85°C (10 Volt Rating at +125°C)</b>								
10.0	*T	T495T106M016A(2)E4K0	1.6	8.0	4000	132	119	53
68.0	*V	T495V686(1)016A(2)E300	10.9	6.0	300	645	581	258

\* Extended Values    \*\* 6 Volt product equivalent to 6.3 volt product  
 (1) To complete KEMET part number, insert M for  $\pm 20\%$  tolerance or K for  $\pm 10\%$  tolerance.  
 (2) To complete KEMET part number, insert lead material designation from page 10.  
 Higher voltage rating, lower ESR and tighter capacitance tolerance product may be substituted within the same size at KEMET's option. Voltage substitutions will be marked with the higher voltage rating.

### COMPONENT MARKING



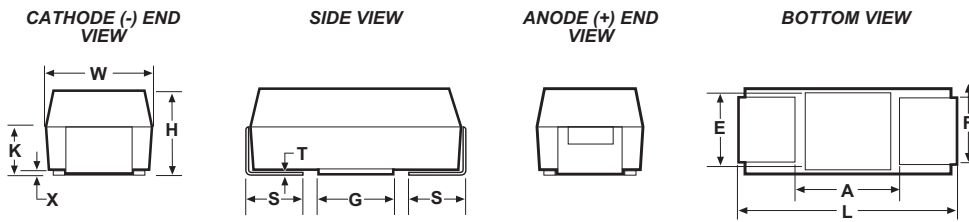
### CONSTRUCTION



### FEATURES

Polymer Cathode Technology	Capacitance: 15.0µF to 470.0µF
Low ESR	Tolerance: ±20%
High Frequency Cap Retention	Voltage: 2 - 16 VDC
No-ignition Failure Mode	Use up to 90% of rated voltage (10% derating) for part types ≤ 10 volts
100% Surge Current test	Use up to 80% of rated voltage (20% derating) for part types > 10 volts
Refer to KEMET F3102 for performance characteristics and page 16 of this catalog for component packaging	RoHS Compliant - Lead Free Terminations (See <a href="http://www.kemet.com">www.kemet.com</a> for transition information)

### CAPACITOR OUTLINE DRAWING

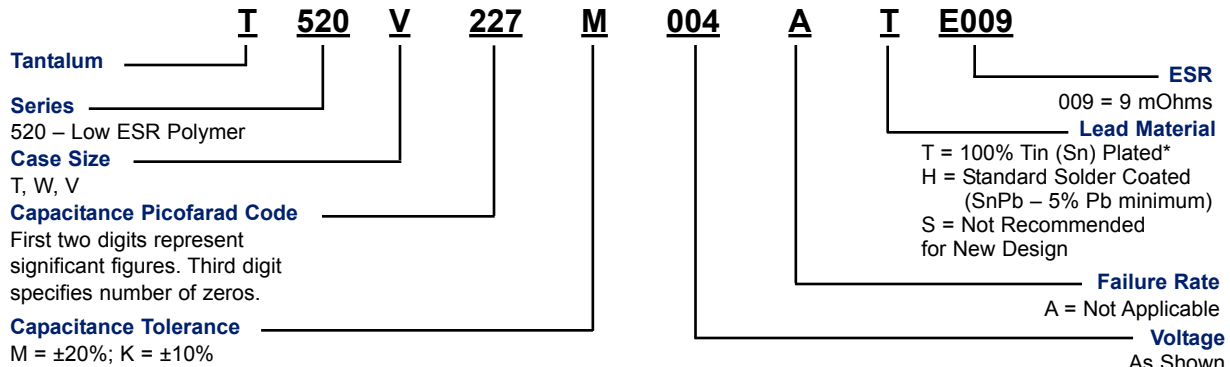


### DIMENSIONS – Millimeters (inches)

Case Size		Component										
KEMET	EIA	L*	W*	H Max.	K Min.	F* ±0.1	S* ± 0.3	X (Ref)	T (Ref)	A (Min)	G (Ref)	E (Ref)
T	3528-12	3.5 ± 0.2 (.138 ± .008)	2.8 ± 0.2 (.110 ± .008)	1.2 (.047)	0.3 (.012)	2.2 (.087)	0.8 (.031)	0.05 (.002)	0.13 (.005)	1.1 (.043)	1.8 (.071)	2.2 (.087)
W	7343-15	7.3 ± 0.3 (.287 ± .012)	4.3 ± 0.3 (.169 ± .012)	1.5 (.059)	0.6 (.024)	2.4 (.094)	1.3 (.051)	0.05 (.002)	0.13 (.005)	3.8 (.150)	3.5 (.138)	3.5 (.138)
V	7343-19	7.3 ± 0.3 (.287 ± .012)	4.3 ± 0.3 (.169 ± .012)	1.9 (.079)	0.09 (.035)	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.  
2. (Ref) Dimensions provided for reference only.

### KEMET ORDERING INFORMATION



\*Refer to [www.kemet.com](http://www.kemet.com) for lead material transition to Pb free.

# T520 SERIES LOW PROFILE SURFACE MOUNT CAPACITORS

## Low ESR, Organic Polymer



### PART NUMBER REFERENCE

Capacitance $\mu\text{F}$	Case Size	KEMET Part Number	DC Leakage $\mu\text{A}$ @ 25°C Max	DF% @ 25°C 120 Hz Max	ESR $\text{m}\Omega$ @ 25°C 100 kHz Max	Ripple Current A rms @ 25°C, 100 kHz Max	
						w/ $\Delta\text{T}$ =20°C @ -55°C to 85°C	w/ $\Delta\text{T}$ =2°C @ 105°C
<b>2 Volt Rating @ 105°C</b>							
470.0	V	T520V477M002A(1)E040	94.0	10.0	40.0	1.8	0.6
<b>2.5 Volt Rating @ 105°C</b>							
220.0	V	T520V227M2R5A(1)E007	55.0	10.0	7.0	4.2	1.3
220.0	V	T520V227M2R5A(1)E009	55.0	10.0	9.0	3.7	1.2
220.0	V	T520V227M2R5A(1)E012	55.0	10.0	12.0	3.2	1.0
220.0	V	T520V227M2R5A(1)E015	55.0	10.0	15.0	2.9	0.9
220.0	V	T520V227M2R5A(1)E025	55.0	10.0	25.0	2.2	0.7
220.0	V	T520V227M2R5A(1)E045	55.0	10.0	45.0	1.7	0.5
330.0	V	T520V337M2R5A(1)E007	83.0	10.0	7.0	4.2	1.3
330.0	V	T520V337M2R5A(1)E009	83.0	10.0	9.0	3.7	1.2
330.0	V	T520V337M2R5A(1)E015	83.0	10.0	15.0	2.9	0.9
330.0	V	T520V337M2R5A(1)E025	83.0	10.0	25.0	2.2	0.7
330.0	V	T520V337M2R5A(1)E040	83.0	10.0	40.0	1.8	0.6
470.0	V	T520V477M2R5A(1)E007	118.0	10.0	7.0	4.2	1.3
470.0	V	T520V477M2R5A(1)E009	118.0	10.0	9.0	3.7	1.2
470.0	V	T520V477M2R5A(1)E012	118.0	10.0	12.0	3.2	1.0
470.0	V	T520V477M2R5A(1)E015	118.0	10.0	15.0	2.9	0.9
<b>3 Volt Rating at 105°C</b>							
330.0	V	T520V337M003A(1)E009	99.0	10.0	9.0	3.7	1.2
330.0	V	T520V337M003A(1)E012	99.0	10.0	12.0	3.2	1.0
330.0	V	T520V337M003A(1)E015	99.0	10.0	15.0	2.9	0.9
330.0	V	T520V337M003A(1)E025	99.0	10.0	25.0	2.2	0.7
<b>4 Volt Rating @ 105°C</b>							
15.0	T	T520T156M004A(1)E100	6.0	8.0	100.0	0.8	0.3
47.0	T	T520T476M004A(1)E070	19.0	8.0	70.0	1.0	0.3
68.0	T	T520T686M004A(1)E070	27.0	8.0	70.0	1.0	0.3
150.0	v	T520V157M004A(1)E007	60.0	10.0	7.0	4.2	1.3
150.0	V	T520V157M004A(1)E009	60.0	10.0	9.0	3.7	1.2
150.0	V	T520V157M004A(1)E012	60.0	10.0	12.0	3.2	1.0
150.0	V	T520V157M004A(1)E015	60.0	10.0	15.0	2.9	0.9
150.0	V	T520V157M004A(1)E025	60.0	10.0	25.0	2.2	0.7
220.0	V	T520V227M004A(1)E007	88.0	10.0	7.0	4.2	1.3
220.0	V	T520V227M004A(1)E009	88.0	10.0	9.0	3.7	1.2
220.0	V	T520V227M004A(1)E012	88.0	10.0	12.0	3.2	1.0
220.0	V	T520V227M004A(1)E015	88.0	10.0	15.0	2.9	0.9
220.0	V	T520V227M004A(1)E025	88.0	10.0	25.0	2.2	0.7
220.0	V	T520V227M004A(1)E040	88.0	10.0	40.0	1.8	0.6
220.0	V	T520V227M004A(1)E045	88.0	10.0	45.0	1.7	0.5
330.0	V	T520V337M004A(1)E007	132.0	10.0	7.0	4.2	1.3
330.0	V	T520V337M004A(1)E009	132.0	10.0	9.0	3.7	1.2
330.0	V	T520V337M004A(1)E012	132.0	10.0	12.0	3.2	1.0
330.0	V	T520V337M004A(1)E025	132.0	10.0	25.0	2.2	0.7
330.0	V	T520V337M004A(1)E040	132.0	10.0	40.0	1.8	0.6
<b>6/6.3 Volt Rating @ 105°C</b>							
15.0	T	T520T156M006A(1)E100	9.5	8.0	100.0	0.8	0.3
33.0	T	T520T336M006A(1)E070	21.0	8.0	70.0	0.9	0.4
47.0	T	T520T476M006A(1)E070	30.0	8.0	70.0	1.0	0.3
100.0	W	T520W107M006A(1)E040	63.0	10.0	40.0	1.7	0.5
100.0	V	T520V107M006A(1)E007	63.0	10.0	7.0	4.2	1.3
100.0	V	T520V107M006A(1)E009	63.0	10.0	9.0	3.7	1.2
100.0	V	T520V107M006A(1)E012	63.0	10.0	12.0	3.2	1.0

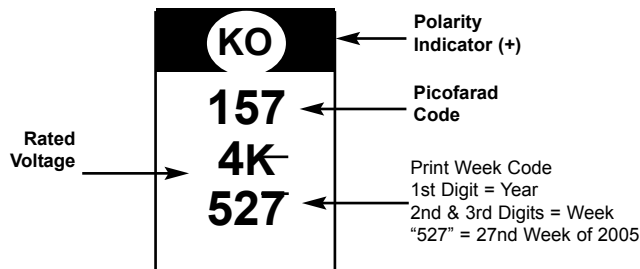
(1) To complete KEMET part number, insert lead material designation from page 12.  
Higher voltage rating, lower ESR and tighter capacitance tolerance product may be substituted within the same size at KEMET's option. Voltage substitutions will be marked with the higher voltage rating.

### PART NUMBER REFERENCE

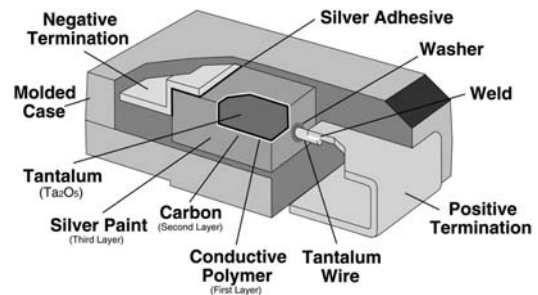
Capacitance $\mu\text{F}$	Case Size	KEMET Part Number	DC Leakage $\mu\text{A}$ @ 25°C Max	DF% @ 25°C 120 Hz Max	ESR m $\Omega$ @ 25°C 100 kHz Max	Ripple Current A rms @ 25°C, 100 kHz Max	
						w/ $\Delta\text{T}$ =20°C @ -55°C to 85°C	w/ $\Delta\text{T}$ =2°C @ 105°C
<b>6/6.3 Volt Rating @ 105°C cont.</b>							
150.0	V	T520V157M006A(1)E009	95.0	10.0	9.0	3.7	1.2
150.0	V	T520V157M006A(1)E012	95.0	10.0	12.0	3.2	1.0
150.0	V	T520V157M006A(1)E015	95.0	10.0	15.0	2.9	0.9
150.0	V	T520V157M006A(1)E025	95.0	10.0	25.0	2.2	0.7
150.0	V	T520V157M006A(1)E040	95.0	10.0	40.0	1.8	0.6
150.0	V	T520V157M006A(1)E045	95.0	10.0	45.0	1.7	0.5
220.0	V	T520V227M006A(1)E007	139.0	10.0	7.0	4.2	1.3
220.0	V	T520V227M006A(1)E009	139.0	10.0	9.0	3.7	1.2
220.0	V	T520V227M006A(1)E012	139.0	10.0	12.0	3.2	1.0
220.0	V	T520V227M006A(1)E015	139.0	10.0	15.0	2.9	0.9
220.0	V	T520V227M006A(1)E025	139.0	10.0	25.0	2.2	0.7
220.0	V	T520V227M006A(1)E040	139.0	10.0	40.0	1.8	0.6
330.0	V	T520V337M006A(1)E025	208.0	10.0	25.0	2.2	0.7
330.0	V	T520V337M006A(1)E040	208.0	10.0	40.0	1.8	0.6
<b>10 Volt Rating @ 105°C</b>							
68.0	V	T520V686M010A(1)E025	68.0	10.0	25.0	2.2	0.7
68.0	V	T520V686M010A(1)E045	68.0	10.0	45.0	1.7	0.5
68.0	V	T520V686M010A(1)E060	68.0	10.0	60.0	1.4	0.5
68.0	W	T520W686M010A(1)E040	68.0	10.0	40.0	1.7	0.5
100.0	V	T520V107M010A(1)E018	100.0	10.0	18.0	2.6	0.8
100.0	V	T520V107M010A(1)E025	100.0	10.0	25.0	2.2	0.7
100.0	V	T520V107M010A(1)E045	100.0	10.0	45.0	1.7	0.5
100.0	V	T520V107M010A(1)E050	100.0	10.0	50.0	1.6	0.5
<b>16 Volt Rating @ 105°C</b>							
33.0	W	T520W336M016A(1)E060	53.0	10.0	60.0	1.6	0.5
33.0	V	T520V336M016A(1)E045	53.0	10.0	45.0	1.7	0.5
33.0	V	T520V336M016A(1)E060	53.0	10.0	60.0	1.4	0.5
47.0	W	T520W476M016A(1)E045	75.0	10.0	45.0	1.6	0.5
47.0	V	T520V476M016A(1)E045	75.0	10.0	45.0	1.7	0.5
<b>20 Volt Rating @ 105°C</b>							
22.0	V	T520V226M020A(1)E040	44.0	10.0	40.0	1.8	0.6
22.0	V	T520V226M016A(1)E090	44.0	10.0	90.0	1.2	0.4
<b>25 Volt Rating @ 105°C</b>							
15.0	V	T520V156M016A(1)E090	38.0	10.0	90.0	1.2	0.4

(1) To complete KEMET part number, insert lead material designation from page 12. Higher voltage rating, lower ESR and tighter capacitance tolerance product may be substituted within the same size at KEMET's option. Voltage substitutions will be marked with the higher voltage rating.

### COMPONENT MARKING



### CONSTRUCTION



# T525 SERIES LOW PROFILE SURFACE MOUNT CAPACITORS

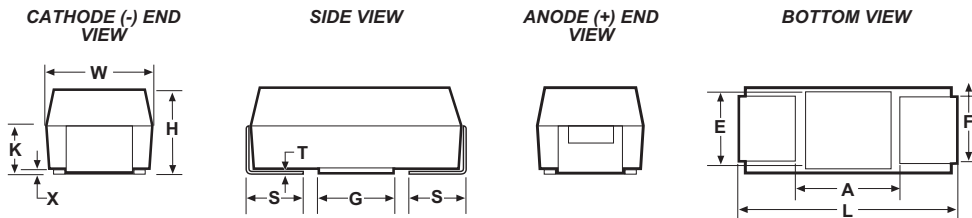
## High Temperature



### FEATURES

Polymer Cathode Technology	Capacitance: 47.0µF to 100.0µF
125°C Maximum Temperature Capability	Tolerance: ±20%
High Frequency Cap Retention	Voltage: 2.5 - 6 VDC
No-ignition Failure Mode	Use up to 90% of rated voltage (10% derating) for part types ≤ 10 volts
100% Surge Current test	Use up to 80% of rated voltage (20% derating) for part types > 10 volts
100% Accelerated Steady State Aging	Self-Healing Mechanism
Operating Temperature -55°C to +125°C	Extremely Stable ESR at 125°C
Refer to KEMET F3102 for performance characteristics and page 16 of this catalog for component packaging	RoHS Compliant - Lead Free Terminations (See www.kemet.com for transition information)

### CAPACITOR OUTLINE DRAWING

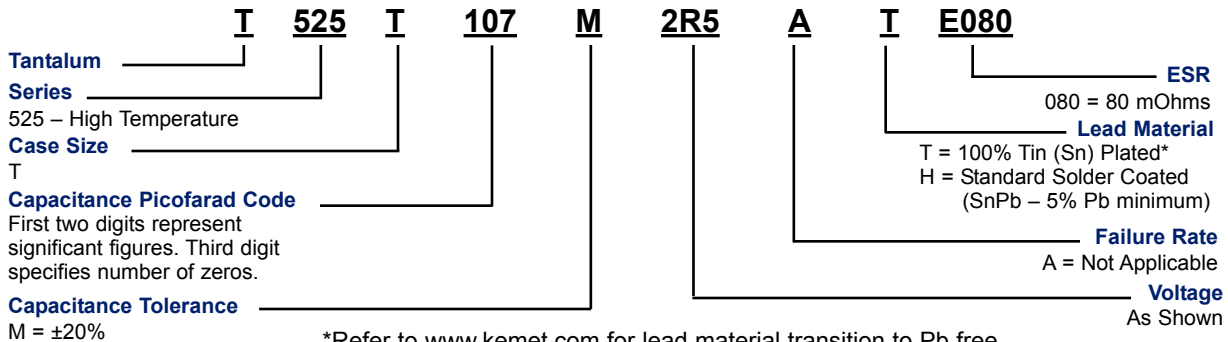


### DIMENSIONS – Millimeters (inches)

Case Size		Component										
KEMET	EIA	L*	W*	H Max.	K Min.	F* ±0.1	S* ± 0.3	X (Ref)	T (Ref)	A (Min)	G (Ref)	E (Ref)
T	3528-12	3.5 ± 0.2 (.138 ± .008)	2.8 ± 0.2 (.110 ± .008)	1.2 (.047)	0.3 (.012)	2.2 (.087)	0.8 (.031)	0.05 (.002)	0.13 (.005)	2.1 (.083)	1.8 (.071)	2.2 (.087)

Notes: 1. Metric dimensions govern.  
2. (Ref) Dimensions provided for reference only.

### KEMET ORDERING INFORMATION



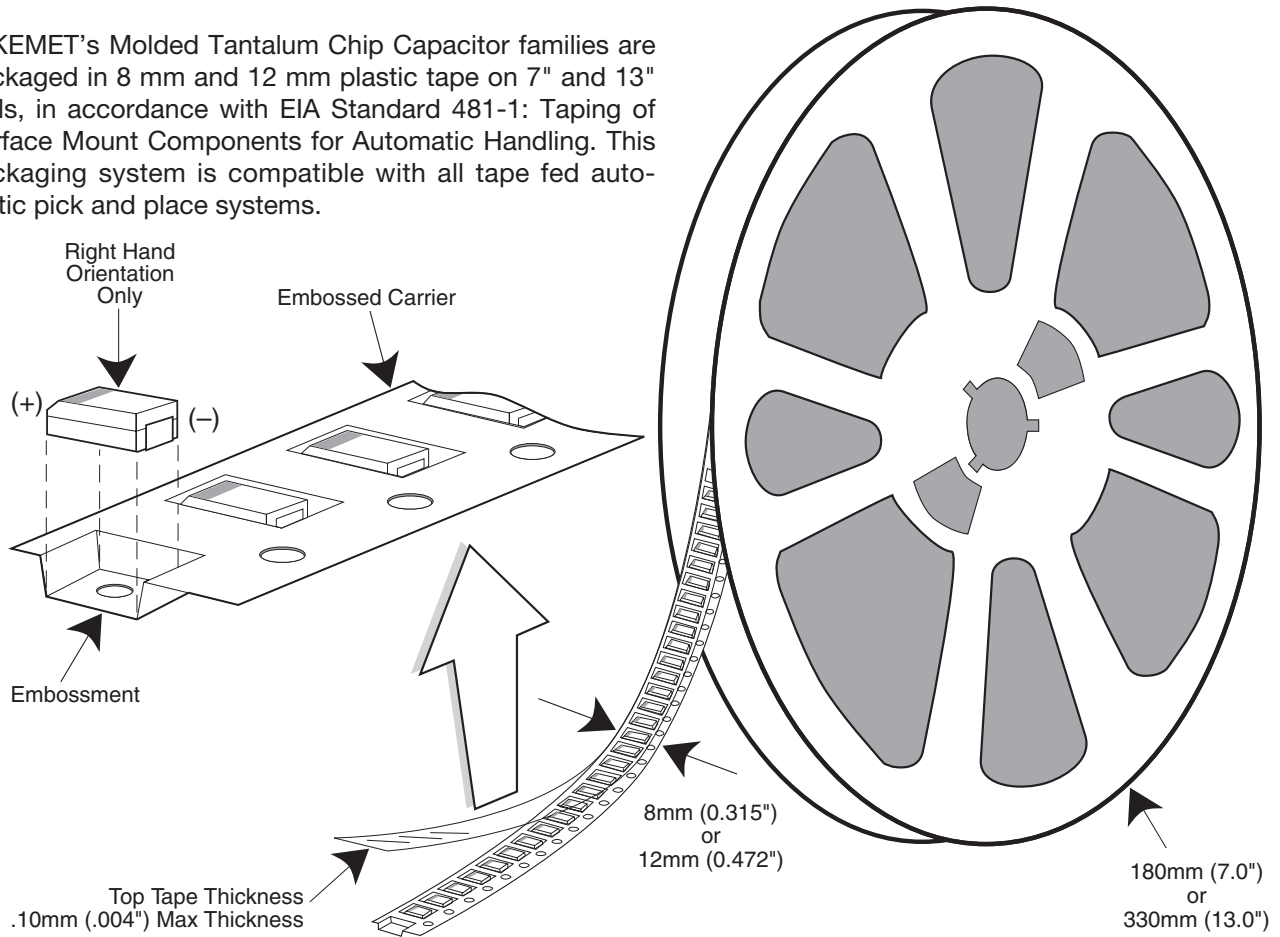
### PART NUMBER REFERENCE

Capacitance µF	Case Size	KEMET Part Number	DC Leakage µA @ 25°C Max	DF% @ 25°C 120 Hz Max	ESR mΩ @ 25°C 100 kHz Max	Ripple Current A rms @ 25°C, 100 kHz Max	
						w/ΔT=20°C @ -55°C to 105°C	w/ΔT=2°C @ 125°C
<b>2.5 Volt Rating @ +105°C (1.7 Volt Rating at 125°C)</b>							
100.0	T	T525T107M2R5A(1)E080	25.0	8.0	80.0	0.9	0.3
<b>4 Volt Rating @ 105°C (2.7 Volt Rating at 125°C)</b>							
68.0	T	T525T686M004A(1)E080	27.0	8.0	80.0	0.9	0.3
<b>6.3 Volt Rating @ 105°C (4.2 Volt Rating at 125°C)</b>							
47.0	T	T525T476M006A(1)E080	30.0	8.0	80.0	0.9	0.3

(1) To complete KEMET part number, insert lead material designation as shown above. 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.

### Tape & Reel Packaging

KEMET's Molded Tantalum Chip Capacitor families are packaged in 8 mm and 12 mm plastic tape on 7" and 13" reels, in accordance with EIA Standard 481-1: Taping of Surface Mount Components for Automatic Handling. This packaging system is compatible with all tape fed automatic pick and place systems.



**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

Case Code		Tape Width - mm	7" Reel	13" Reel
KEMET	EIA			
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



### Performance Notes

- Cover Tape Break Force:** 1.0 Kg Minimum.
- 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° to 180° from the plane of the carrier tape. During peeling, the carrier and/or cover tape shall be pulled at a velocity of 300 ±10 mm/minute.
- 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.
- 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

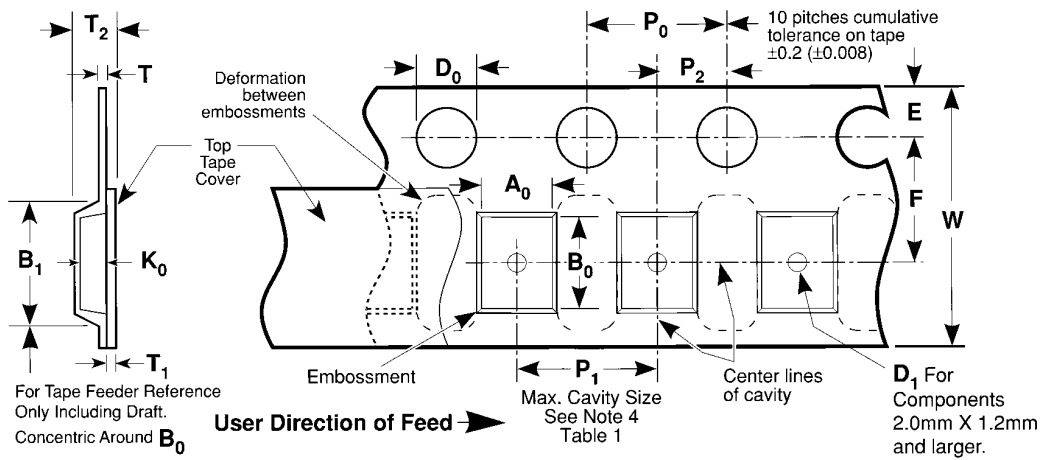


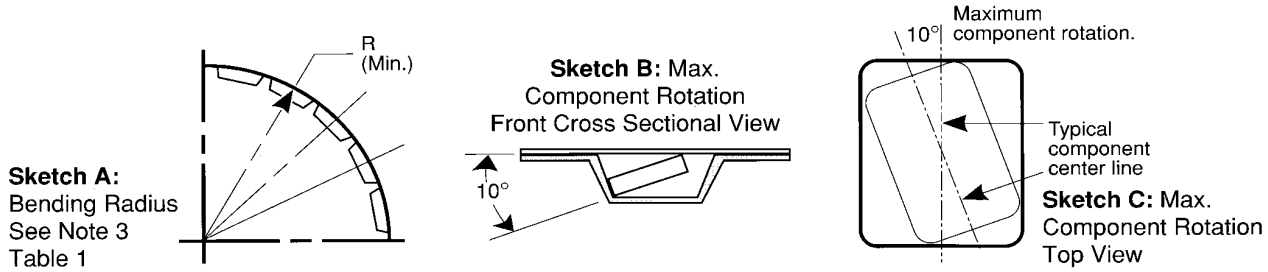
Table 1 — EMBOSSED TAPE DIMENSIONS (Metric will govern)

Constant Dimensions — Millimeters (Inches)									
Tape Size	D <sub>0</sub>	E	P <sub>0</sub>	P <sub>2</sub>	T Max	T <sub>1</sub> Max			
8 mm and 12 mm	1.5 +0.10 -0.0 (0.059 +0.004, -0.0)	1.75 ±0.10 (0.069 ±0.004)	4.0 ±0.10 (0.157 ±0.004)	2.0 ±0.05 (0.079 ±0.002)	0.600 (0.024)	0.100 (0.004)			
Variable Dimensions — Millimeters (Inches)									
Tape Size	Pitch	B <sub>1</sub> Max. Note 1	D <sub>1</sub> Min. Note 2	F	P <sub>1</sub>	R Min. Note 3	T <sub>2</sub> Max	W	A <sub>0</sub> B <sub>0</sub> K <sub>0</sub> Note 4
8 mm	Single (4 mm)	4.4 (0.173)	1.0 (0.039)	3.5 ±0.05 (0.138 ±0.002)	4.0 ±0.10 (0.157 ±0.004)	25.0 (0.984)	2.5 (0.098)	8.0 ±0.30 (.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

- B1 dimension is a reference dimension for tape feeder clearance only.
- 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.
- 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)
- The cavity defined by A<sub>0</sub>, B<sub>0</sub>, and K<sub>0</sub> 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.)

Embossed Carrier Tape Configuration (cont.)



Sketch D: Tape Camber (Top View)

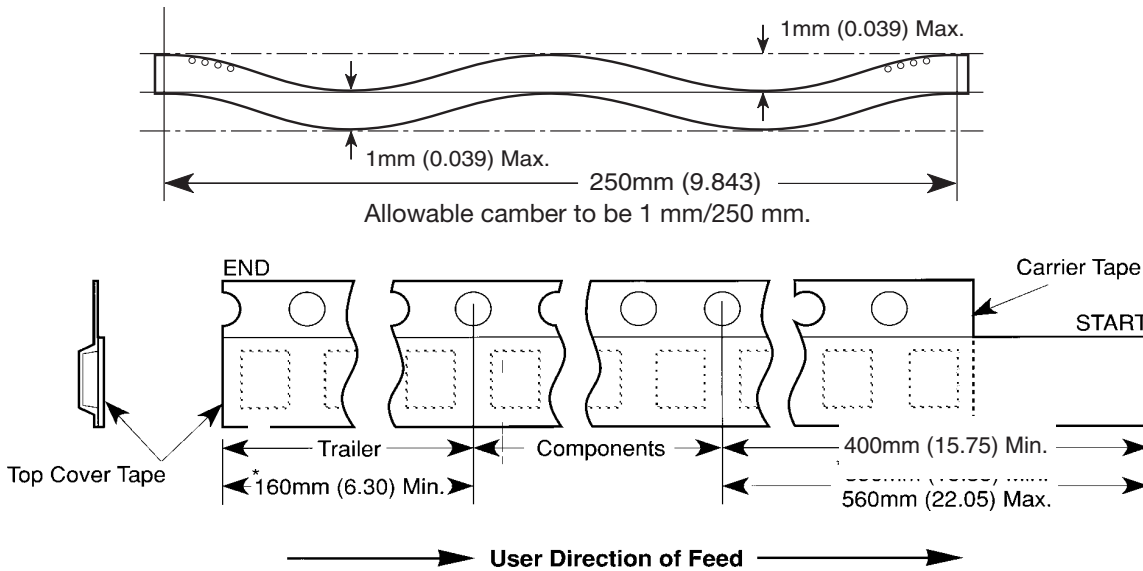


Figure 2: Tape Leader & Trailer Dimensions (Metric Dimensions Will Govern)

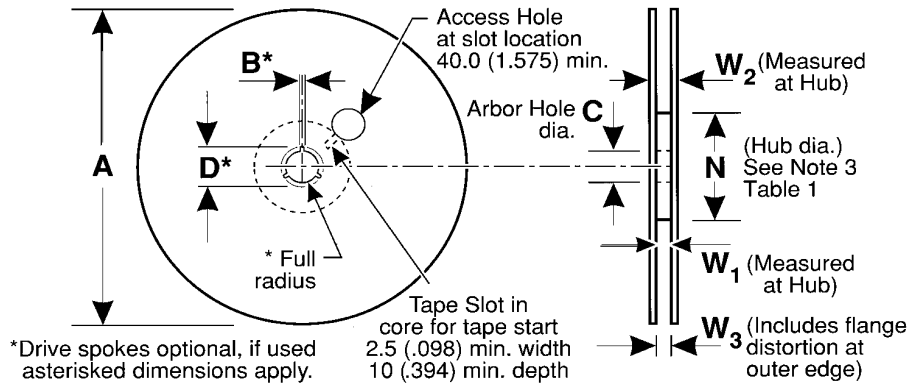


Figure 3: Reel Dimensions (Metric Dimensions will govern)

Table 2 – REEL DIMENSIONS (Metric will govern)

Tape Size	A Max	B* Min	C	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 Table 1	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)		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)





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