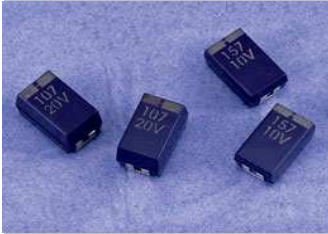


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Specifications

Standard Tantalum Solid Electrolytic Capacitors Chip Type

Operating temperature Range -55°C ~ +125°C (85°C with rated voltage derating).

Capacitance tolerance: +/-20%.

DC leakage, dissipation factor and ESR at 25°C.

Taping and reeling per EIA481-1 Specification.

General purpose surface mount type.

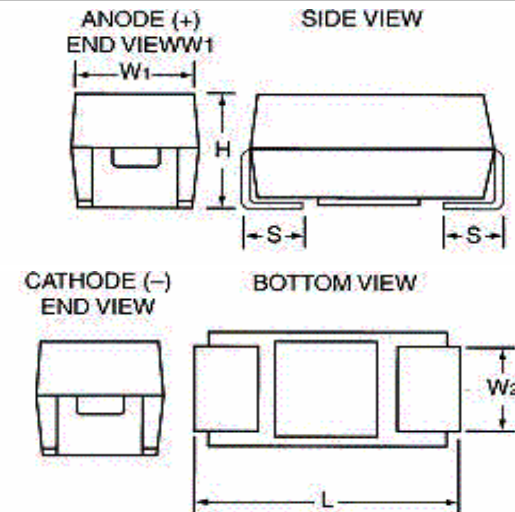
Compact size & wide CV range.

High Solderability & stabler characteristics for soldering.

Compatible with all popular automatic pick and place equipment.



Technical Drawing



Dimensions

Case Size	L= +/-0,2	W1= +7-0,2	H= +/-0,2	S= +/-0,2	W2= +/-0,2
S	2,0	1,2	1,2	0,5	1,2
A	3,2	1,6	1,6	0,8	1,2
B	3,5	2,8	1,9	0,8	2,2
C	6,0	3,2	2,5	1,3	2,2
D	7,3	4,3	2,8	1,3	2,4
E	7,3	4,3	4,0	1,3	2,4
V	7,3	6,1	3,5	1,4	3,1

Technical		Performance Characteristics							
Operating Temperature Range:		. -55°C ~ +125°C							
Rated Working Voltage:		4 to 50VDC							
Nominal Capacitance Range:		0,1 to 1500µF							
Capacitance Tolerance:		. +/-20% / +/-10% (120Hz +/-20°C)							
Leakage Current:		Not more than 0,01CV (µA) or 0,5µA whichever is greater							

Characteristics at High and Low Temperature	capacitance (µF)	Capacitance Change (%)			DF Max. (%)				DCL Max. (µF)	
		-55°C	+85°C	+125°C	-55°C	+20°C	+55°C	+125°C	+85°C	+125°C
	1	-10	+10	+12	6	4	6	6	10lo	20lo
	1,5 ~ 68				10	6	10	10		
	100 ~ 680				12	8	12	12		
	680 ~1500				14	10	14	14		

**Standard Tantalum Capacitor
Alternate to KEMET**

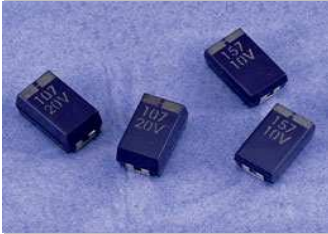
Part No.: **I17001**

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	20.05.2010	Customer:
APPD:	Schumi			FINISH	Jamy		Sheet No.	1 from 5		

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Moisture Resistance

Test conditions:

Relative Humidity:	90 to 95% without load
Ambient Temperature:	.+ 40°C
Duration:	500 hours
Post rest requirement at 20°C	
Leakage current:	≤ Initial specified value.
Capacitance change:	+/- 10% of initial measured value
tan	≤ Initial specified value.

Shell Life

Test conditions		Post test requirements at +20°C
Duration:	2000 hours	Same limits for Endurance.
Ambient temperature:	. +125°C	
Applied Voltage:	(none)	

Solder Heat Resistance

The Capacitor shall withstand dipping into solder bath for 5 +/-1 seconds at 260 +/-5°C

Endurance

Test conditions

Conditions	Derating	Rating
Item		
Duration	2000 hours	2000 hours
Ambient temperature	. +125°C	. +85°C
Applied Voltage	Derating working voltage	Rated working voltage
Source impedance	1Ω/V	1Ω/V

Derating Voltage +125°C for 10~50V working

Rated Voltage	4,0	6,3	10,0	16,0	20,0	25,0	35,0	50,0
Voltage Derating	2,5	4,0	6,3	10,0	13,0	16,0	23,0	33,0
Surge Voltage +85°C	5,0	8,0	13,0	20,0	26,0	32,0	46,0	65,0
Surge Voltage +0°C	3,4	5,0	9,0	12,0	16,0	20,0	26,0	38,0

Post test requirements 5.0 at +20°C

Leakage Current	≤ 125% of initial specified value
Capacitance Change	.+/- 10% of initial measured value.
tan	≤ initial specified value

**Standard Tantalum Capacitor
Alternate to KEMET**

Part No.: **I17001**

Customer:

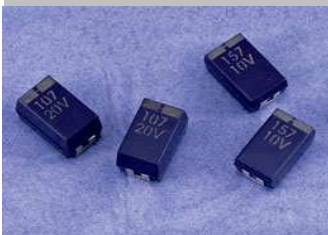
DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	20.05.2010
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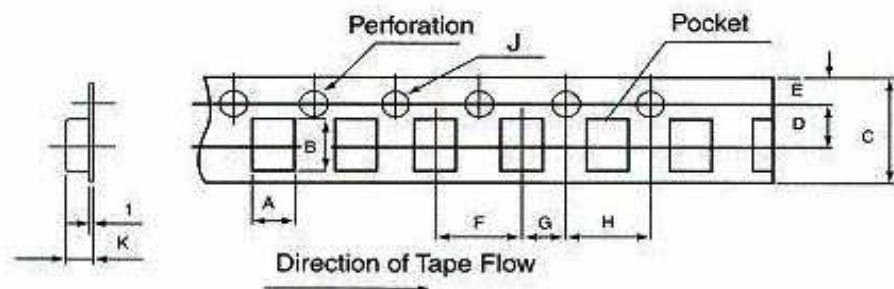
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Packing Specification

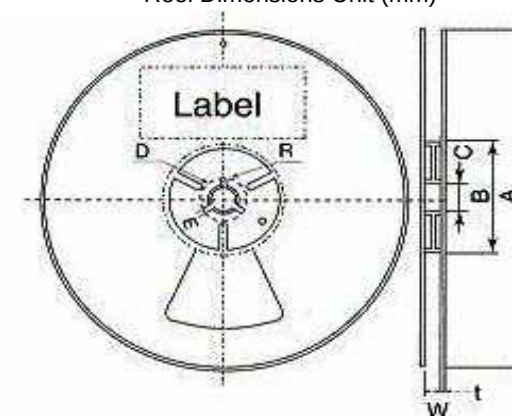
Dimensions of the carrier tape and standards parts quantity per reel



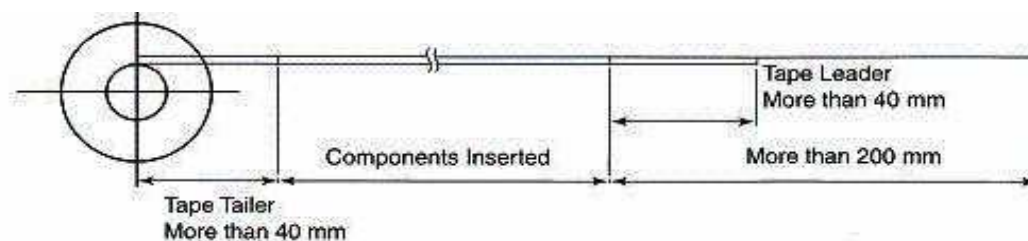
Case Size	A +/- 0,1	B +/- 0,1	C +/- 0,1	D +/- 0,1	E +/- 0,1	F +/- 0,1	G +/- 0,1	H +/- 0,1	J +/- 0,1	K max.	t	Quantity
S	1,6	2,4	8	3,5	1,75	4	2	4	1,5	2,5	0,2	2000
A	1,9	3,5	8	3,5	1,75	4	2	4	1,5	2,5	0,2	2000
B	3,1	3,8	8	3,5	1,75	4	2	4	1,5	2,5	0,2	2000
C	3,6	6,4	12	5,5	1,75	8	2	4	1,5	3	0,3	500
D	4,7	7,7	12	5,5	1,75	8	2	4	1,5	3,4	0,3	500
E	4,6	7,6	12	5,5	1,75	8	2	4	1,5	4,6	0,3	400
V	6,4	7,4	12	5,5	1,75	8	2	4	1,5	3,8	0,3	400

Tape width	8	12
A	Ø 180	←
B	Ø 60	←
C +/-0.2	Ø 13	←
D +/-0.2	Ø 21	←
E +/-0.5	2,0	←
W +/-0.3	9,0	13,0
t +/-0.4	1,3	←
R +/-0.4	10,5	←

Reel Dimensions Unit (mm)



Tape Leader and Tailer



**Standard Tantalum Capacitor
Alternate to KEMET**

Part No.: **I17001**

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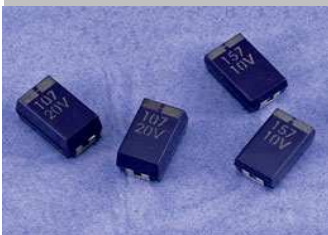
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Ordering Informations

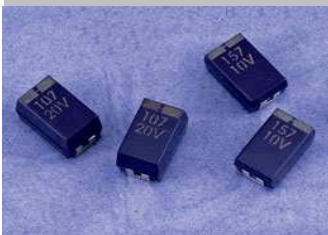
Serie	Voltage	Tol.	Range Cod.	Case Code	ROHS	Package				
I17001	160	M	106	C	R	TR				
160= 16Volt		M= Tol. 20%	106= 10µF	C= Size Code	R= ROHS Conform N= NON ROHS Conform	TR= Tape / Reel				
		K= Tol. 10%								

**Standard Tantalum Capacitor
Alternate to KEMET**

Part No.: **I17001**

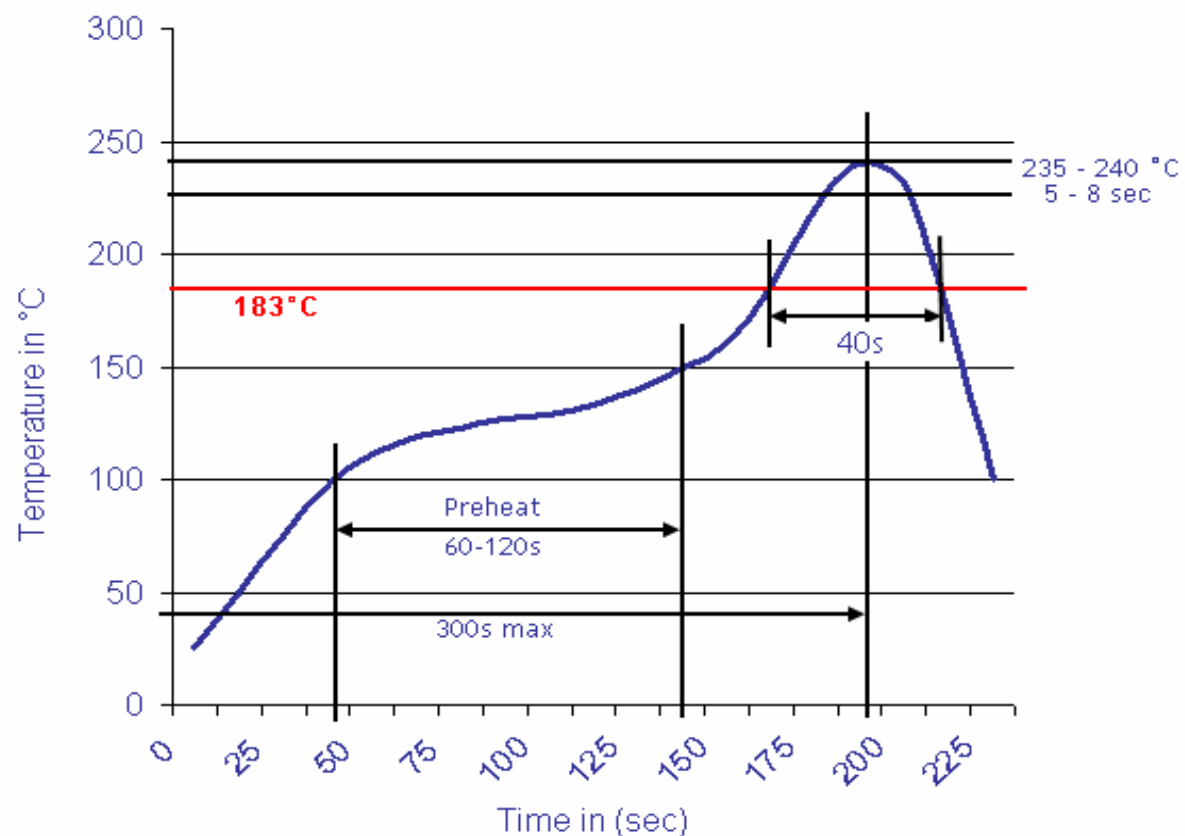
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Customer:



Soldering Profile Curve

Classification Reflow Profile (JEDEC J-STD-020C)



Standard Tantalum Capacitor
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