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DATA SHEET

CHIP Wide Temperature Range 105°C

Serie: I15005

Voltage:	16Volt	Range:	680µF
Impedance:	no specified	Dimension	10x10,5mm
Ripple Current:	315mA		

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	03.06.2014	CHIP Wide Temperature Range 105°C
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										Customer:

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Designed for surface mounting on high density circuit board
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Technical Informations

Voltage:	**16Volt**
Range;	**680µF**
Dimension; D x L mm	**10x10,5mm**
Impedance (Ω) max., at20°C, 100hKz	**no specified**
Ripple Current (mA rms) at 105°C, 100kHz	**315mA**

Ordering Code				
160	**Voltage**			
681	**Range**			
D=	**G**		**L=**	**4**

Operating Temperatur Range of -40°C ~ +85°C
Load Life of 1000~2000 hours at 85°C

Leakage current max.	Ø4 ~ Ø10mm	I= 0,01CV or 3µA whichever is greater (after 2 minutes)									
	Ø12,5 ~ Ø16mm	I= 0,03CV or 4µA whichever is greater (after 1 minutes)									
Capacitance tolerance	± 20% at 120Hz, 20°C										
Dissipation factor max. (at 120Hz, 20°C)	WV		4,0	6,3	10	16	25	35	50	63	100
	TanÕ	Ø4 ~ Ø10mm	0,42	0,30	0,26	0,22	0,16	0,14	0,21	0,12	0,12
		Ø12,5 ~ Ø16mm	0,45	0,38	0,34	0,30	0,26	0,22	0,18	0,14	0,12

Low Temperatur characteristics (Impedance ratio at 120Hz)	WV		4,0	6,3	10	16	25	35	50	63	100
	Ø4 ~ Ø10mm	Z-25°C / Z+20°C	7	4	3	2	2	2	2	2	2
		Z-40°C / Z+20°C	15	8	6	4	4	3	3	3	4
	Ø12,5 ~ Ø16mm	Z-25°C / Z+20°C	7	5	4	3	2	2	2	2	2
		Z-40°C / Z+20°C	17	12	10	8	5	4	3	3	3
Load Life (after aplication of the rated voltage for 1000hrs at 105°C	Leakagge current		Less than specified value								
	Capacitance Change		Within ±20% of initial value								
			Within ±30% of initial value for 4V & 6,3V								
	TanÕ		Less than 200% of specified value								
	Ø4 ~ , Ø6,3x5,4: 1000hours										
Shell life (at 85°C)	After 1000hours no load test, leakage current, capacitance and tanÕ are same as load life value.										

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Resistance to soldering heat	After reflow soldering and resistance at room temperature, they meet the characteristics requirements listed at underside	
	Leakage current	Less than specified value
	Capacitance Change	Within ± 10% of initial value
	TanÕ	Less than specified value

FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

Diameter	Capacitance	Frequency				
	µF	50Hz	120Hz	300Hz	1KHz	10KHz≤
Ø4 ~ Ø10mm	**0,1 ~68**	0,70	1,00	1,17	1,36	1,50
	100 ~3300	0,85	1,00	1,08	1,20	1,30
Ø12,5 ~ Ø16mm	**~68**	0,75	1,00	1,35	1,57	2,00
	100 ~680	0,80	1,00	1,23	1,34	1,50
	1000 ~6800	0,85	1,00	1,10	1,13	1,15

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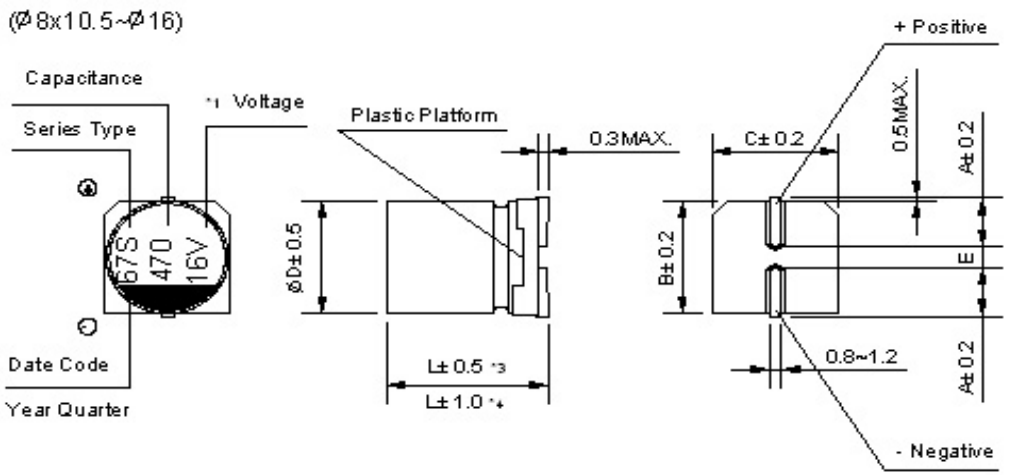
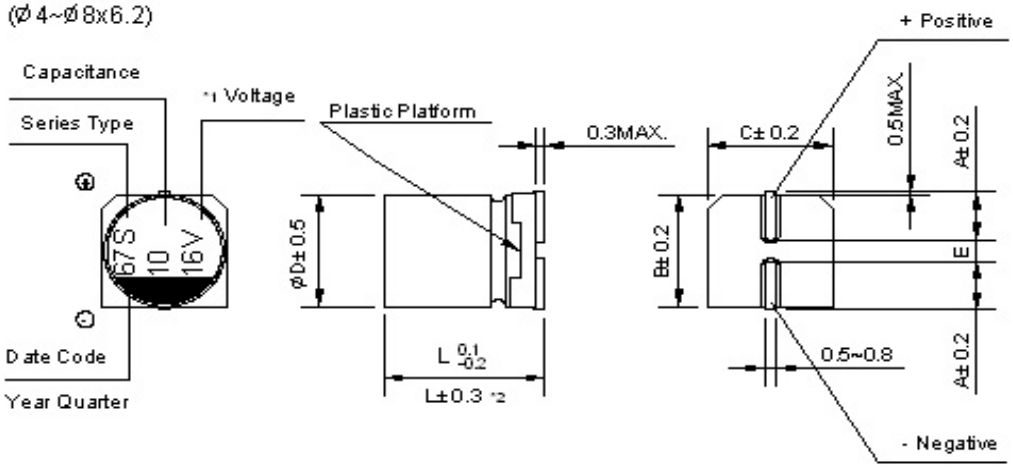
Technical Drawing

Dimension of Size Ø 8x10,5 ~ 16mm



Dimension of Size Ø 4~ 8x6,2mm



D x L	Ø 4 x 5.4	Ø 5 x 5.4	Ø 6,3 x 5.4	Ø 6,3 x 7,7	Ø 8 x 6,2	Ø 8 x 10,5	Ø 10 x 10,5	Ø 10 x 13,5	Ø 12.5 x 13,5	Ø 12,5 x 16	Ø 16 x 16,5
A	1,8	2,1	2,4	2,4	3,3	2,9	3,2	3,2	4,7	4,7	5,5
B	4,3	5,3	6,6	6,6	8,3	8,3	10,3	10,3	12,8	12,8	16,3
C	4,3	5,3	6,6	6,6	8,3	8,3	10,3	10,3	12,8	12,8	16,3
E +/-0.2	1,0	1,3	2,2	2,2	2,2	3,1	4,4	4,4	4,4	4,4	6,7
L	5,4	5,4	5,4	7,7	6,2	10,5	10,5	13,5	13,5	16,0	16,5

*1 Voltage mark (6V) reprents 6,3V for Ø 4 ~ 10mm
*2 (L +/- 0.3) is applicable to Ø 6,3 ~ 7.7 and Ø 8 + 6,2mm
*3 (L +/- 0.5) is applicable to Ø 8x10,5 ~ Ø 10mm
*4 (L +/- 1.0) is applicable to Ø 12,5 ~ Ø 16mm
RE. Date code and seriew type -1st digit for Year 2nd digit for Quarter, 4 quarter codes in one year area 1,4,7,0
3rd character for Serie S

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Voltage Ordering Code	Code
4,0	**4V0**
6,3	**6V3**
10	**100**
16	**160**
25	**250**
35	**350**
50	**500**
63	**630**
80	**800**
100	**101**

Diameter ordering Code D	Code
3mm	**3**
4mm	**A**
5mm	**B**
6,3mm	**C**
8mm	**E**
10mm	**G**
12,5mm	**I**
16mm	**K**

Height ordering Code L	Code
4mm	**A**
5,4mm	**0**
5,8mm	**1**
6,2mm	**2**
7,7mm	**3**
10,5mm	**4**
13,5mm	**5**
16mm	**6**
16,5mm	**7**

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Ordering Informations

Serie		Voltage Code	Tolerance Code	Range Code	Size Code D	Size Code L	Special function	ROHS	Packing Code		
I15005	**-**	**160**	**M**	**681**	**G**	**4**	**XX**	**R**	**TR**		

look table Voltage Code	**M=** ±20%	Ordering Code Range	Look table Code D	Look table Code L	**XX=** No function	**R=** ROHS Conform	**TR=** Tape Reel Packing
						N= NON ROHS Conform	**BU=** Bulk-Ware

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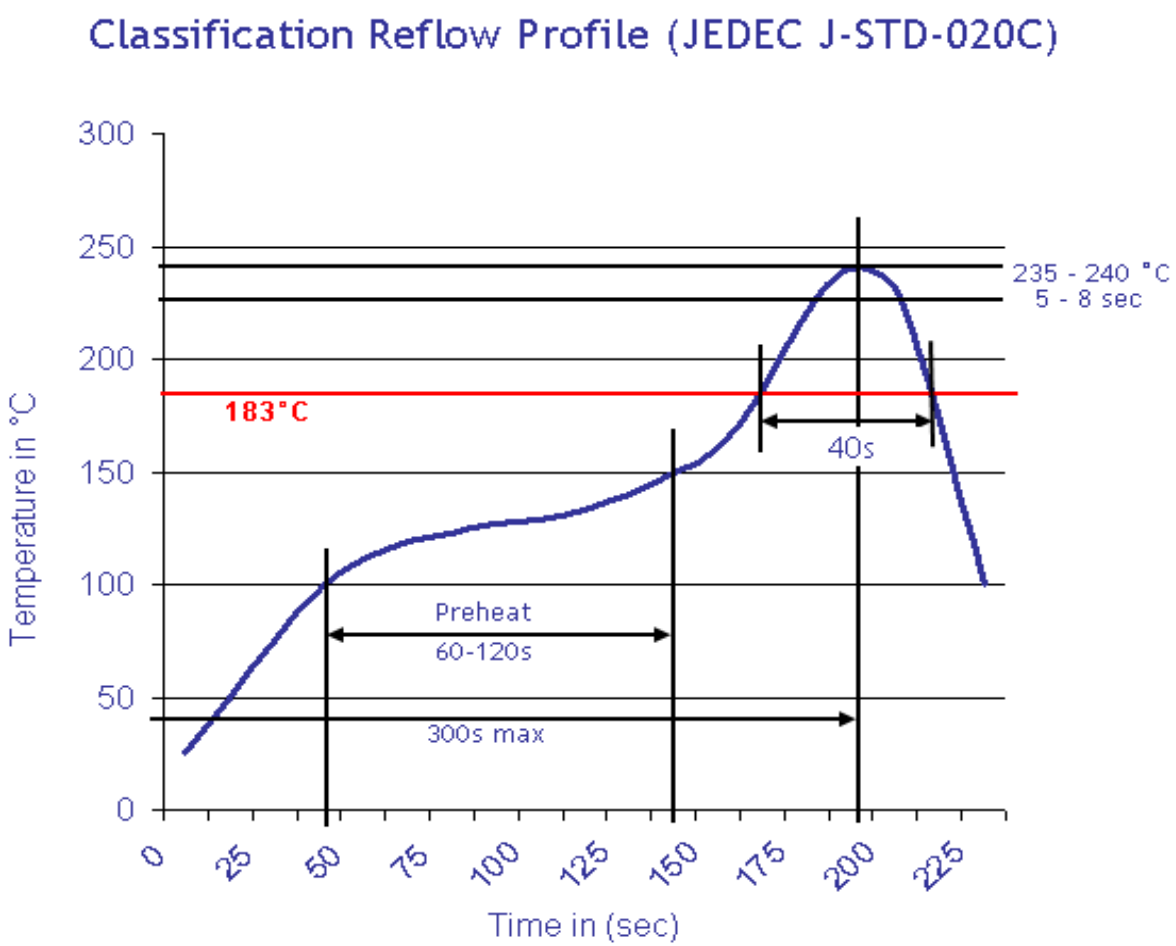
Soldering Profile Curve



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