DATA SHEET

CHIP Extra Lower Impedance Life 105°C

Serie: I15011

Voltage:	50Volt	Range:	4,7µF
Impedance:	3,0Ω	Dimension	4x5,8mm
Ripple Current:	60mA		

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	03.06.2014	CHIP Extra Lower Impedance Life 105°C
APPD:	Schumi			FINISH	Jamy		Sheet No.		1 from 7	Serie No.: I15011
										Customer:

email: info@edcon-components.com

EDCON-COMPONENTS

Designed for surface mounting on high density circuit board
Emboss carrier tape packing systems is available for automatic insertion

EDCON COMPONENTS
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Technical Informations

Voltage:	**50Volt**
Range;	**4,7µF**
Dimension; D x L mm	**4x5,8mm**
Impedance (Ω) max., at20°C, 100Khz	**3,0Ω**
Ripple Current (mA rms) at 105°C, 100kHz	**60mA**

Ordering Code				
500	**Voltage**			
4R7	**Range**			
D=	**A**		**L=**	**1**

Impedance 40~60% less than I15008 Series
Extra Lower Impedance with Operating Temperatur Range of -55°C ~ +105°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		6,3	10	16	25	35	50						
	TanÕ	Ø4 ~ Ø10mm	0,22	0,19	0,16	0,14	0,12	0,12						
		Ø12,5 ~ Ø16mm	0,26	0,22	0,18	0,16	0,14	0,12						

Low Temperatur characteristics (Impedance ratio at 120Hz)	WV		6,3	10	16	25	35	50						
	Ø4 ~ Ø10mm	Z-25°C / Z+20°C	2	2	2	2	2	2						
		Z-55°C / Z+20°C	5	4	4	3	3	3						
	Ø12,5 ~ Ø16mm	Z-25°C / Z+20°C	3	2	2	2	2	2						
		Z-55°C / Z+20°C	10	8	6	4	3	3						

Load Life (after aplication of the rated voltage for 3000hrs at 105°C	Leakagge current	Less than specified value
	Capacitance Change	Within ±25% of initial value
	TanÕ	Less than 200% of specified value
	Ø4 ~ Ø6,3x5,8: 1000hours , Ø6,3x7,7 ~ Ø8,0: 2000hours	

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Shell life (at 105°C)	After 1000hours no load test, leakage current, capacitance and tanÕ are same as load life value.

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						
Size	**Capacitance**	**Frequency**					
	µF	**50Hz**	**120Hz**	**300Hz**	**1KHz**	**10KHz≤**	
Ø4 ~ Ø10mm	**4,7~ 68**	0,35	0,50	0,64	0,83	1,00	
	100~1500	0,40	0,55	0,70	0,85	1,00	
Ø12,5 ~ Ø16mm	**~680**	0,45	0,65	0,80	0,90	1,00	
	1000 ~4700	0,65	0,85	0,95	1,00	1,00	

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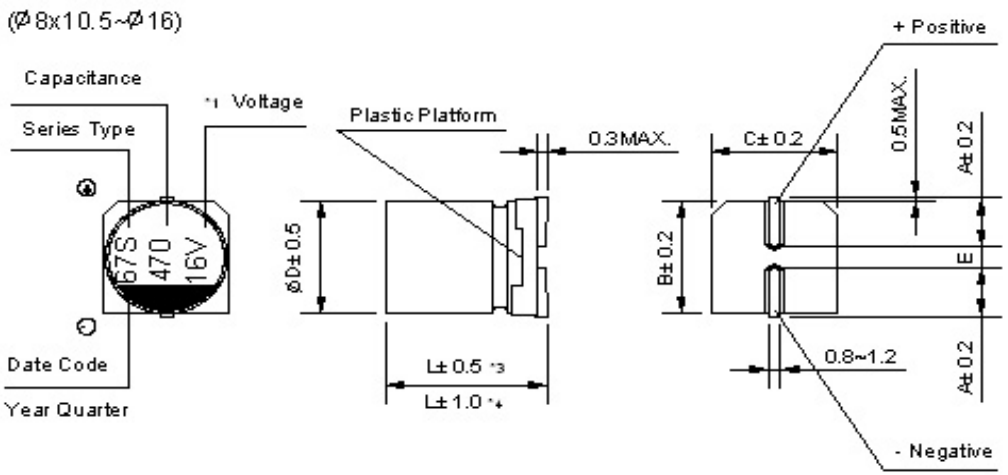
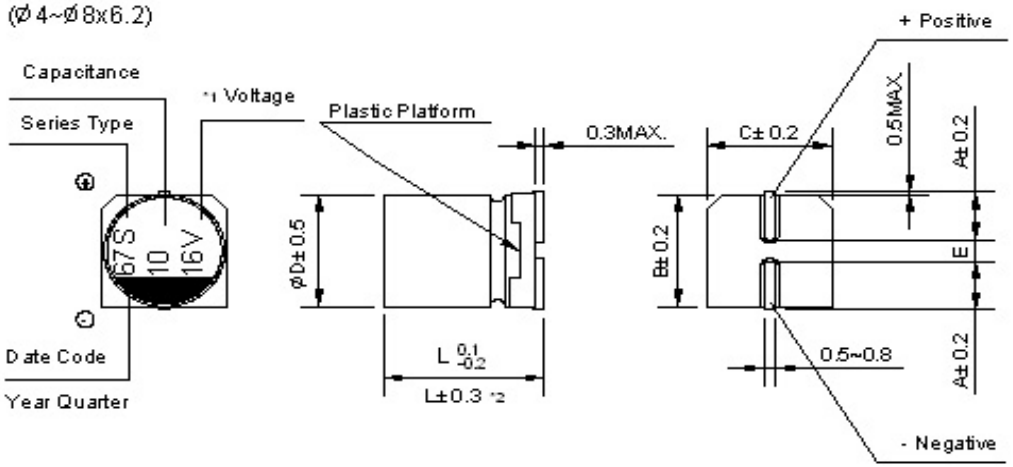
Technical Drawing

Dimension of Size Ø 8x10,5 ~ 16mm



Dimension of Size Ø 4~ 8x6,2mm



D x L	Ø 4 x 5.8	Ø 5 x 5.8	Ø 6,3 x 5.8	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	2,0	2,2	2,6	2,6	3,4	3,0	3,3	3,3	4,9	4,9	5,8
B	4,3	5,3	6,6	6,6	8,4	8,4	10,4	10,4	13,0	13,0	17,0
C	4,3	5,3	6,6	6,6	8,4	8,4	10,4	10,4	13,0	13,0	17,0
E +/-0.2	1,0	1,3	1,9	1,9	2,3	3,1	4,7	4,7	4,7	4,7	6,4
L	5,8	5,8	5,8	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		
I15011	**-**	**500**	**M**	**4R7**	**A**	**1**	**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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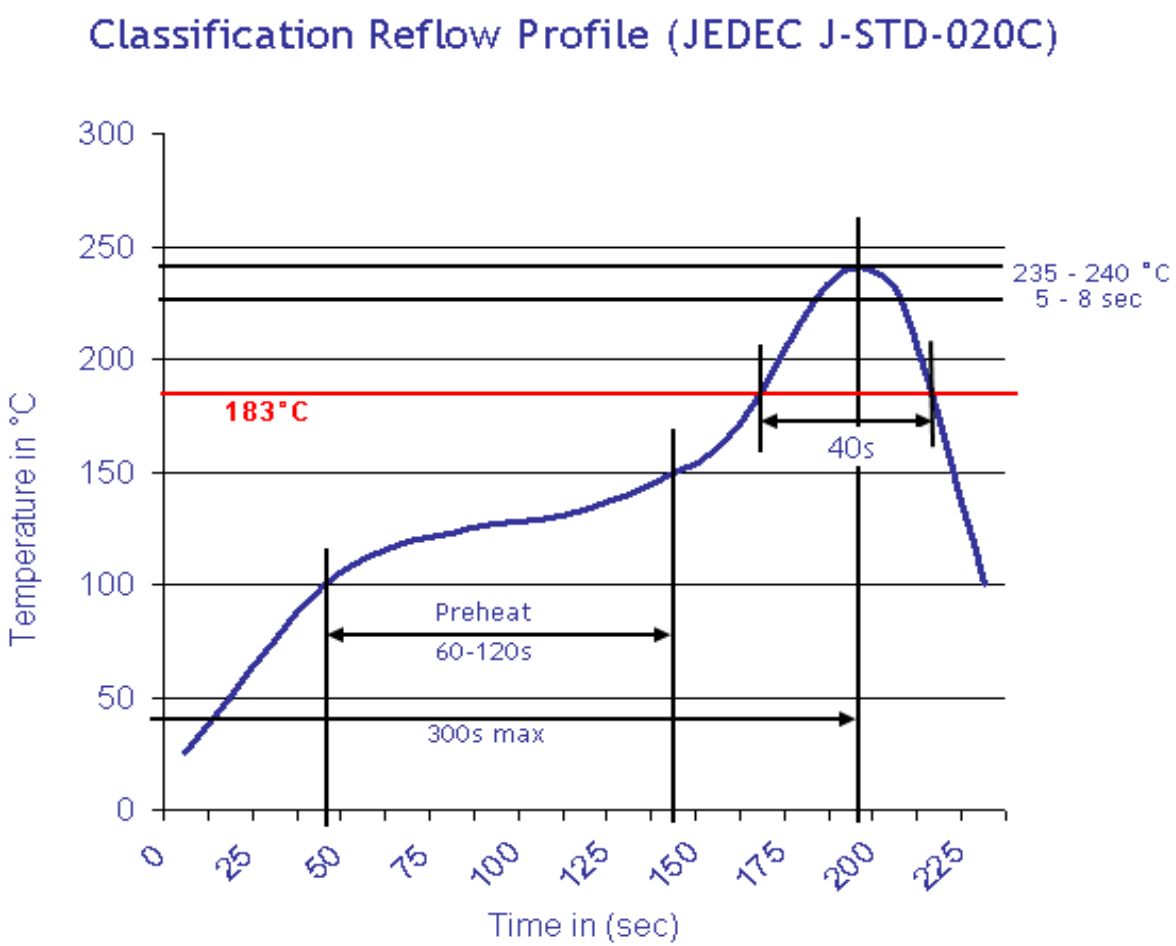
Soldering Profile Curve



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