



# DATA SHEET

## CHIP Extra Lower Impedance Life 105°C

### Serie: I15011

Voltage: 10Volt Range: 330 $\mu$ F

Impedance: 0,17 $\Omega$  Dimension 8x10,5mm

Ripple Current: 450mA

CHIP Extra Lower Impedance  
Life 105°C

Serie No.: I15011

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	03.06.2014	Customer:
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# EDCON-COMPONENTS



Designed for surface mounting on high density circuit board

Emboss carrier tape packing systems is available for automatic insertion



## Technical Informations

Voltage:	<b>10Volt</b>
Range:	<b>330µF</b>
Dimension; D x L mm	<b>8x10,5mm</b>
Impedance (Ω) max., at20°C, 100hKz	<b>0,17Ω</b>
Ripple Current (mA rms) at 105°C, 100kHz	<b>450mA</b>

Ordering Code			
<b>100</b>	<b>Voltage</b>		
<b>331</b>	<b>Range</b>		
<b>D=</b>	<b>E</b>	<b>L=</b>	<b>4</b>

Impedance 40~60% less than I15008 Series  
Extra Lower Impedance with Operating Temperatur Range of -55°C ~ +105°C

<b>Leakage current max.</b>	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

<b>Dissipation factor max. (at 120Hz, 20°C)</b>	WV		6,3	10	16	25	35	50							
	Tanδ	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							

<b>Low Temperatur characteristics ( Impedance ratio at 120Hz )</b>	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								

<b>Load Life ( after application of the rated voltage for 3000hrs at 105°C</b>	Leakage current	Less than specified value
	Capacitance Change	Within ±25% of initial value
	Tanδ	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 tan $\delta$  are same as load life value.

<b>Resistance to soldering heat</b>	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 $\pm 10\%$ of initial value
	Tan $\delta$	Less than specified value

Size	FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT					
	Capacitance $\mu\text{F}$	Frequency				
		50Hz	120Hz	300Hz	1KHz	10KHz $\leq$
$\varnothing 4 \sim \varnothing 10\text{mm}$	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
$\varnothing 12,5 \sim \varnothing 16\text{mm}$	~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 $\varnothing$ 8x10,5 ~ 16mm



### Dimension of Size $\varnothing$ 4~ 8x6,2mm



D x L	$\varnothing$ 4 x 5,8	$\varnothing$ 5 x 5,8	$\varnothing$ 6,3 x 5,8	$\varnothing$ 6,3 x 7,7	$\varnothing$ 8 x 6,2	$\varnothing$ 8 x 10,5	$\varnothing$ 10 x 10,5	$\varnothing$ 10 x 13,5	$\varnothing$ 12,5 x 13,5	$\varnothing$ 12,5 x 16	$\varnothing$ 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) represents 6,3V for  $\varnothing$  4 ~ 10mm

\*3 (L +/- 0.5) is applicable to  $\varnothing$  8x10,5 ~  $\varnothing$  10mm

\*2 (L +/- 0.3) is applicable to  $\varnothing$  6,3 ~ 7.7 and  $\varnothing$  8 + 6,2mm

\*4 (L +/- 1.0) is applicable to  $\varnothing$  12,5 ~  $\varnothing$  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	<b>4V0</b>
6,3	<b>6V3</b>
10	<b>100</b>
16	<b>160</b>
25	<b>250</b>
35	<b>350</b>
50	<b>500</b>
63	<b>630</b>
80	<b>800</b>
100	<b>101</b>

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

Height ordering Code L	Code
4mm	<b>A</b>
5,4mm	<b>0</b>
5,8mm	<b>1</b>
6,2mm	<b>2</b>
7,7mm	<b>3</b>
10,5mm	<b>4</b>
13,5mm	<b>5</b>
16mm	<b>6</b>
16,5mm	<b>7</b>

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## Ordering Informations

Serie	Voltage Code	Tolerance Code	Range Code	Size Code D	Size Code L	Special function	ROHS	Packing Code		
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<b>I15011</b>	<b>100</b>	<b>M</b>	<b>331</b>	<b>E</b>	<b>4</b>	<b>XX</b>	<b>R</b>	<b>TR</b>		
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look table Voltage Code	<b>M= ±20%</b>	Ordering Code Range	Look table Code D	Look table Code L	<b>XX= No function</b>	<b>R= ROHS Conform</b> <b>N= NON ROHS Conform</b>	<b>TR= Tape Reel Packing</b> <b>BU= Bulk-Ware</b>		
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## Soldering Profile Curve

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



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