



# DATA SHEET

## CHIP Extra Lower Impedance Life 105°C

### Serie: I15011

Voltage: 6,3Volt

Range: 220 $\mu$ F

Impedance: 0,34 $\Omega$

Dimension 8x6,2mm

Ripple Current: 280mA

CHIP Extra Lower Impedance  
Life 105°C

Serie No.: I15011

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	03.06.2014	Customer:
APPD:	Schumi			FINISH	Jamy		Sheet No.	1 from 7		

# 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>6,3Volt</b>
Range;	<b>220µF</b>
Dimension; D x L mm	<b>8x6,2mm</b>
Impedance (Ω) max., at 20°C, 100kHz	<b>0,34Ω</b>
Ripple Current (mA rms) at 105°C, 100kHz	<b>280mA</b>

Ordering Code			
<b>6V3</b>	<b>Voltage</b>		
<b>221</b>	<b>Range</b>		
<b>D=</b>	<b>E</b>	<b>L=</b>	<b>2</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 $\varnothing 8 \times 10,5 \sim 16 \text{mm}$



### Dimension of Size $\varnothing 4 \sim 8 \times 6,2 \text{mm}$



D x L	$\varnothing 4 \times 5,8$	$\varnothing 5 \times 5,8$	$\varnothing 6,3 \times 5,8$	$\varnothing 6,3 \times 7,7$	$\varnothing 8 \times 6,2$	$\varnothing 8 \times 10,5$	$\varnothing 10 \times 10,5$	$\varnothing 10 \times 13,5$	$\varnothing 12,5 \times 13,5$	$\varnothing 12,5 \times 16$	$\varnothing 16 \times 16,5$
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 $\pm 0,2$	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  $\varnothing 4 \sim 10 \text{mm}$

\*3 (L  $\pm 0,5$ ) is applicable to  $\varnothing 8 \times 10,5 \sim \varnothing 10 \text{mm}$

\*2 (L  $\pm 0,3$ ) is applicable to  $\varnothing 6,3 \sim 7,7$  and  $\varnothing 8 + 6,2 \text{mm}$

\*4 (L  $\pm 1,0$ ) is applicable to  $\varnothing 12,5 \sim \varnothing 16 \text{mm}$

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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## 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>6V3</b>	<b>M</b>	<b>221</b>	<b>E</b>	<b>2</b>	<b>XX</b>	<b>R</b>	<b>TR</b>		
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look table	<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>TR= Tape Reel Packing</b>		
Voltage Code						<b>N= NON ROHS Conform</b>			
							<b>BU= Bulk-Ware</b>		

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## Soldering Profile Curve

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



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