



# DATA SHEET

## CHIP Low Leakage Current

### Serie: I15004

Voltage: 6,3Volt

Range: 47 $\mu$ F

Impedance: 11 $\Omega$

Dimension 5x5,4mm

Ripple Current: 47mA

**CHIP Low Leakage Current**

Serie No.: **I15004**

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>47μF</b>
Dimension; D x L mm	<b>5x5,4mm</b>
Impedance (Ω) max., at20°C, 100hKz	<b>11Ω</b>
Ripple Current (mA rms) at 105°C, 100kHz	<b>47mA</b>

Ordering Code			
<b>6V3</b>	<b>Voltage</b>		
<b>470</b>	<b>Range</b>		
<b>D=</b>	<b>B</b>	<b>L=</b>	<b>0</b>

- Low Leakage current ( 0,5μA to 3,3μA max).
- Low cost for replacement of some tantalum applications
- Low Impedance with Operating Temperatur Range of -40°C ~ +85°C
- Load Life of 2000hours

<b>Leakage current max.</b>	I = 0,002CV or 0,5μA whichever is greater ( after 2 minutes)	
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<b>Capacitance tolerance</b>	± 20% at 120Hz, 20°C																
<b>Dissipation factor max. (at 120Hz, 20°C)</b>		WV															
	Tanδ	Ø4 ~ Ø6,3mm	6,3	10	16	25	35	50									
			0,24	0,20	0,16	0,14	0,12	0,10									

<b>Low Temperatur characteristics ( Impedance ratio at 120Hz )</b>		WV															
		Z-25°C / Z+20°C	6,3	10	16	25	35	50									
		Z-40°C / Z+20°C	4	3	2	2	2	2									
			8	6	4	4	3	3									

<b>Load Life ( after application of the rated voltage for 2000hrs at 85°C</b>	Leakage current	Less than specified value
	Capacitance Change	Within ±25% of initial value
	Tanδ	Less than 200% of specified value
	Ø4 ~ Ø6,3x5,4: 1000hours	

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<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

FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT					
Frequency	50Hz	120Hz	300Hz	1KHz	10KHz $\leq$
Coefficient	0,70	1,00	1,17	1,36	1,50

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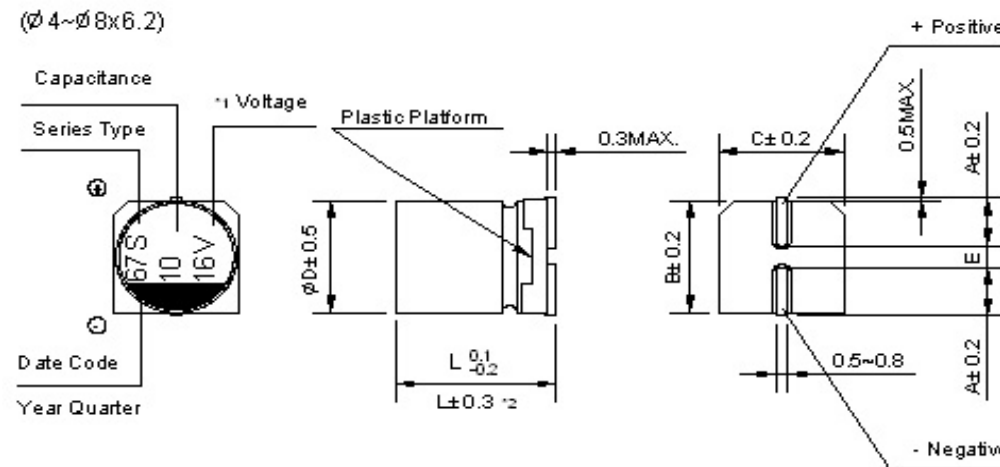


## Technical Drawing

### 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	$\varnothing 4 \times 5.4$	$\varnothing 5 \times 5.4$	$\varnothing 6,3 \times 5.4$	$\varnothing 6,3 \times 7,7$						
A	2,0	2,2	2,6	2,6						
B	4,3	5,3	6,6	6,6						
C	4,3	5,3	6,6	6,6						
E +/-0.2	1,0	1,3	1,9	1,9						
L	5,4	5,4	5,4	7,7						

\*1 Voltage mark (6V) represents 6,3V for  $\varnothing 4 \sim 10 \text{mm}$

\*3 (L +/- 0.5) is applicable to  $\varnothing 8 \times 10,5 \sim \varnothing 10 \text{mm}$

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

\*4 (L +/- 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>I15004</b>	<b>6V3</b>	<b>M</b>	<b>470</b>	<b>B</b>	<b>0</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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