

# Mega-Chip Electronics Pte Ltd.

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# PRODUCT SPECIFICATION

**REV****ECN No.****2****N050470*****DCC Master Copy*****DIMENSION**

1. The detailed dimensions of battery holder for CR2032 are showed in drawing.

**MATERIAL AND FINISH**

1. Housing : Thermoplastic,UL 94V-0
2. Contact: Copper alloy, tin and nickel or gold and nickel plating

**OPERATING PERFORMANCE**

1. Operating Temperature: -55°C to +85°C
2. Current Rating: 3 A
3. Voltage Rating: 220 VAC RMS.

**ELECTRICAL PERFORMANCE**

ITEM	TEST CONDITION	REQUIREMENT
Low Level Contact Resistance	EIA-364-23 Mate connector with a max. voltage of 20 mV and a current of 100 m	30 m max
Dielectric Withstanding Voltage	EIA-364-20 Mate connector apply a voltage of 1000V AC between adjacent terminals for 1 minute	No breakdown
Insulation Resistance	EIA-364-21 Mate connector with a voltage of 500V DC between adjacent terminals for 2 minutes	1000M min

**MECHANICAL PERFORMANCE**

ITEM	TEST CONDITION	REQUIREMENT
Durability	EIA-364-09 Repeated mated 200 cycles with a 2032 style battery Cycling rate - 500 cycles per hour	No evidence of physical damage

**Mega-Chip****PRODUCT NAME:****Battery Holder For CR2032****DOCUMENT No:****GSP-AAA-BAT-014****REV:****2****PAGE:****1 of 3****APPROVED BY:****Tony****CHECKED BY:****Joe\_peng****WRITTEN BY:****Liu\_juan**

# PRODUCT SPECIFICATION

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N050470

**ENVIRONMENTAL PERFORMANCE***DCC Master Copy*

ITEM	TEST CONDITION	REQUIREMENT
Vibration	EIA -364-28 Frequency: 20~500~20Hz      Acceleration: 3.1g Direction: X, Y, Z axis      Amplitude: 1.5mm Duration: 1 hours in each direction	No interruptions > 1.0 μ sec.
Mechanical shock	EIA -364-27 Wave form: half sine wave Acceleration: 50g Duration: 11 ms No. of shock: each axis 3 times Direction: +X, -X, +Y, -Y, +Z, -Z axis	No interruptions > 1.0 μ sec
Humidity (Steady State)	EIA-364-31 Mate connector expose to a temperature of 40 ±2°C with a relative humidity of 90~95% for 96 hours	30m max
Thermal Shock	EIA-364-32 Mate connector expose for 5 cycles between temperatures -55°C and +105°C; dwell 30 minutes at each temperature	30m max
Solder ability	EIA-364-52 The connector terminal tails in sold to 5 ± sec. at temperature 245 ±5°C	Sold coverage 90% min. of the immersed area
Resistance to Solder Heat	EIA-364-56 Specimen should be mounted on the PCB 260 for 10 secs and on 225 for 60 secs min (2 /sec < cool down < 3.5 /sec)	No evidence of physical damage

**PACKING**

Parts should be packed to protect against damage during handing, transit, and storage.

<b>Mega-Chip</b>	<b>PRODUCT NAME:</b> Battery Holder For CR2032		
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	<b>APPROVED BY:</b> Tony	<b>CHECKED BY:</b> Joe_peng	<b>WRITTEN BY:</b> Liu juan

# PRODUCT SPECIFICATION

**REV****ECN No.**

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**QUALIFICATION TESTING***DCC Master Copy*

Qualification of the connector should be performed by the test sequence.

Test or Examination	Test Groups			Remark
	A	B	C	
Examination of product	1,9	1,9	1,6	A, B, C, is the test step
Low level contact resistance	2,4,6,8	2,4,6,8		
Dielectric Withstanding Voltage			2	
Insulation resistance			3	
Vibration	7			
Mechanical shock	5			
Humidity		7		
Thermal shock		5		
Resistance to solder heat			5	
Solder ability			4	
Durability	3	3		
Specimen quantity (pcs)	8	8	8	

**Mega-Chip****PRODUCT NAME:**

Battery Holder For CR2032

**DOCUMENT No:**

GSP-AAA-BAT-014

**REV:**

2

**PAGE:**

3 of 3

**APPROVED BY:**

Tony

**CHECKED BY:**

Joe\_peng

**WRITTEN BY:**

Liu juan

# DCC Master Copy

7	8
REV. 2	ECN NO. / DESCRIPTION N040450
DATE 3/01'05	

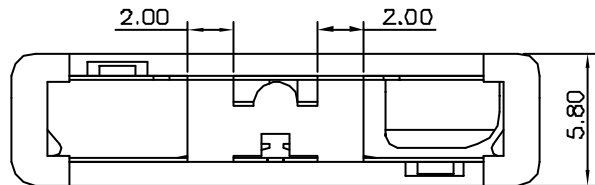
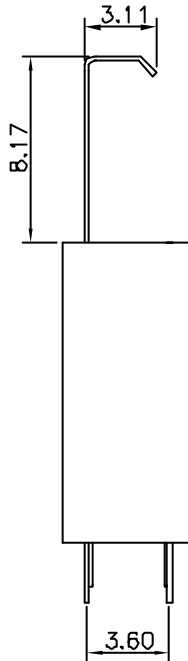
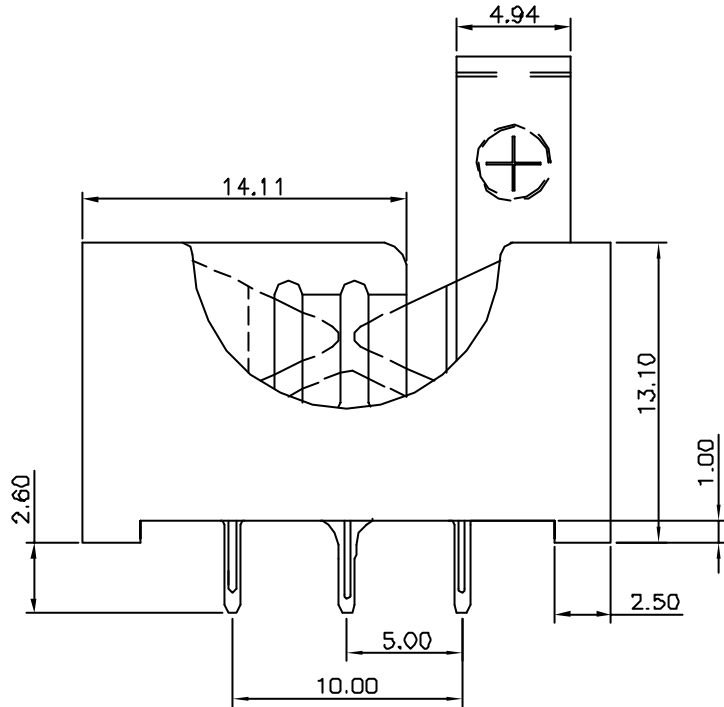
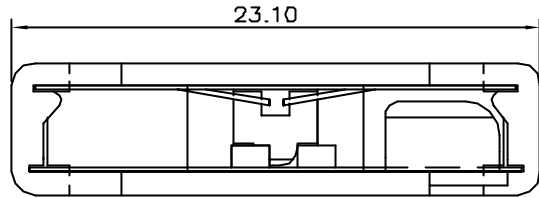
## HOW TO ORDER

K	B75	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lead free	Product Code	Housing Material	Housing Colour	Contacts Material	Plated	Spec.
		<input type="checkbox"/> 66: PA66	<input type="checkbox"/> B: Black <input type="checkbox"/> C: Blue	<input type="checkbox"/> B: Brass <input type="checkbox"/> P: Phosphor Bronze	<input type="checkbox"/> 5: Tin	<input type="checkbox"/> L: Standard <input type="checkbox"/> Q: Kink tail<2.65mm> <input type="checkbox"/> R: Kink tail<3.10mm> <input type="checkbox"/> M: Standard negative thickness 0.25mm <input type="checkbox"/> N: No mark <input type="checkbox"/> LD100: Standard negative modification

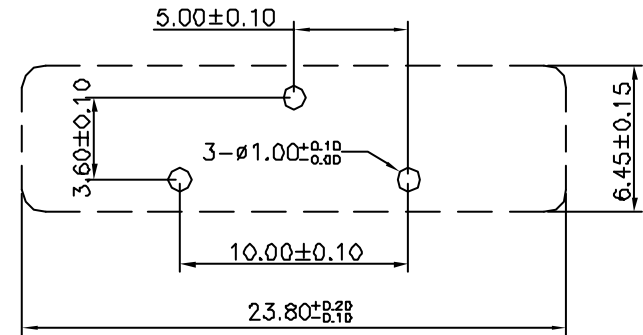
GENERAL TOLERANCES UNLESS SPECIFIED		PART NO.			
X ±	X °±	APPROVE Alan_Yuan		TITLE BATTERY HOLDER FOR CR2032	
.XX ±	.X° ±				
.XXX ±	.XX° ±				
CUSTOMER DRAWING		CHECK		DWG NO. KB75QC	
SIZE A4	UNITS MM [INCH]	DRAW L T 3/01'05			SHEET 1 / 1
				SCALE 1:0.2	REV 2

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REV.	ECN NO. / DESCRIPTION	DATE
2	N040332	8/31'04
3	N050146	5/23'05



- NOTES:  
 1.DIMENSIONS ARE IN MILLMETERS  
 2.MATERIAL:  
 PLASTIC PART:PA66+30%G.F  
 UL94V-O,BLACK;  
 CONTACT:PHOSPHOR BRONZE  
 3.FINISH:  
 CONTACT:TIN PLATED OVER ALL  
 4.ACCORDING TO THE ENVIRONMENTAL REQUIREMENT,WARRANTY  
 THE CONTROLLED HAZARDOUS SUBSTANCE SHOULD BE  
 MEET ROHS'S SPECIFICATION.



RECOMMENDED PC BOARD LAYOUT

GENERAL TOLERANCES UNLESS SPECIFIED		PART NO.				
.X ±0.35	X °±3°	KB7566BP5L				
.XX ±0.25	.X °±2°	APPROVE	TITLE			
.XXX ±0.15	.XX °±1°	TONY 5/23'05	BATTERY HOLDER FOR CR2032			
CUSTOMER DRAWING		CHECK	DWG NO.			
			KB75QCL001			
SIZE	UNITS	DRAW		SHEET	SCALE	REV
A4	MM[INCH]	LI TING 5/23'05		1 / 1	3:1	3