

Mega-Chip Electronics Pte Ltd.

TITLE:	PROD NO:	DR: C.C.S	CHKD: TED JU	APPD: TED JU
DWG NO:	REV: 0		DATA: 051099	NOTE:

PRODUCT SPECIFICATION

DESCRIPTION: Battery Holder(CR2032 DIP)

PART NO. BHB6615BP5L

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DIMENSION:

- 1.NO. OF CONTACT AND DETAIL DIMENSIONS ARE SHOWN IN DRAWING.
- 2.Battery Holder(CR 2032)IS SHOWED IN DRAWING.

MATERIAL AND FINISH:

1. INSULATOR: BLACK P.B.T WITH 30% GLASS FIBER. FLAMMABILITY
UL94V-0.
2. CONTACT: PHOSPHOR BRONZE.
3. PLATING CODE: (1) POSITIVE TERMINAL: SN=100u" P - Cu=30 u"
(2) NEGATIVE TERMINAL: SN=100u" P - Cu=30 u"

SPECIFICATIONS:

- 1.OPERATING TEMPERATURE: -55°C TO +85°C
- 2.ELECTRICAL CHARACTERISTICS
 - (1) CURRENT RATING: 3 AMPERES.
 - (2) VOLTAGE RATING: 250 VAC.
 - (3) CONTACT RESISTANCE: 30mΩ (MAX.) @ DC 100mA.
 - (4) INSULATION RESISTANCE: 1000MΩ (MIN.) @ DC 500V.
- 3.MECHANICAL CHARACTERISTICS
 - (1) POSITIVE TERMINAL RETENTION FORCE: 1.2Kg(MIN)
 - (2) NEGATIVE TERMINAL RETENTION FORCE: 0.4Kg(MIN)

RELIABILITY:

1. HUMIDITY:

(1) STANDARD---MIL-STD-202F

(2) CONDITION-- 40°C AND 90~95%RH FOR 240 HOURS

(3) REQUIREMENT-AFTER TEST

INSULATION RESISTANCE:1000M Ω .(MIN)

DIELECTRIC STRENGTH:@AC 1000V FOR ONE MINUTE.

CONTACT RESISTANCE:30m Ω .(MAX)

NO HEAVY CORROSION.

2. THERMAL SHOCK:

(1) STANDARD---MIL-STD-202F

(2) CONDITION---

ITEM	TEMPERATURE	DURATION(MINUTE)
------	-------------	------------------

1	-55	30
---	-----	----

2	+25	5(MAX)
---	-----	--------

3	+85	30
---	-----	----

4	+25	5(MAX)
---	-----	--------

FORM ITEM 1 TO 4 IS CALLED ONE CYCLE.

IT SHALL BE TESTED FOR 5 CYCLE CONTINUALLY.

(3) REQUIREMENT- AFTER TEST

INSULATION RESISTANCE:1000M Ω .(MIN)

CONTACT RESISTANCE:30m Ω .(MAX)

NO HEAVY CORROSION NOR VISIBLE DAMAGE.

3. HEAT AGING:

(1) STANDARD---MIL-STD-202F

(2) CONDITION--@ 85°C FOR 240 HOURS

(3) REQUIREMENT-AFTER TEST

INSULATION RESISTANCE:1000M Ω .(MIN)

CONTACT RESISTANCE:30m Ω .(MAX)

4. DURABILITY:

(1) CONDITION--25 CYCLE OF COUPLONG.

(2) REQUIREMENT-AFTER TEST

CONTACT RESISTANCE: $30\text{m}\Omega$.(MAX)

NO VISIBLE DAMAGE.

NO OUT OF SPECIFICATION OF INSERTION AND
WITHDRAWAL FORCE.

5. SOLDERABILITY:

(1) CONDITION--@230°C FOR 5 SECONDS.

(2) REQUIREMENT-AFTER TEST

NO DAMAGE TO THE CONNECTOR.

A HIGHLY IRREGULAR SOLDER SURFACE IS
UNACCEPTABLE.

6. HEAT RESISTANCE TO SOLDERING:

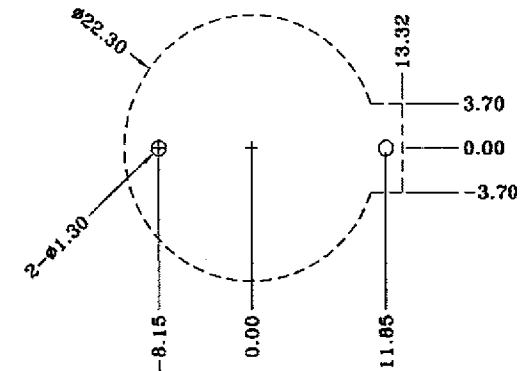
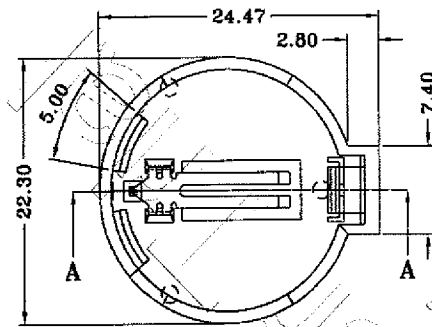
(1) STANDARD---MIL-STD-202F

(2) CONDITION--@ 260°C FOR 10 SECONDS

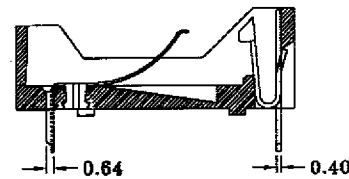
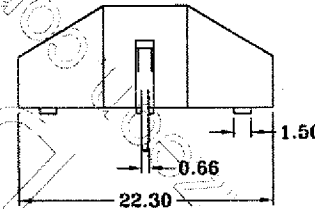
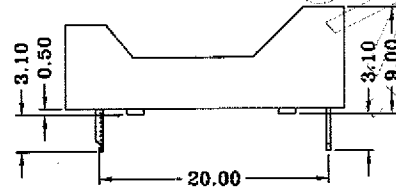
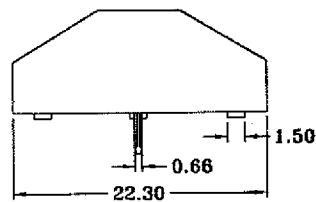
(3) REQUIREMENT-AFTER TEST

INSULATION RESISTANCE: $30\text{m}\Omega$.(MIN)

NO DAMAGE TO THE CONNECTOR.

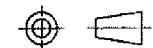


RECOMMENDED PC BOARD LAYOUT



SECTION A-A

Title: BATTERY HOLDER CR2032



TOLERANCE UNLESS
OTHERWISE SPECIFIED

Units
mm/inch

Sheet 1 / 1

mm: .0=±
.00=±.25
.000=±
inch: .000=±
.0000=±

Ang: .0=±
.00=±

REVISION	DECRPTION	DRAWEN BY	CHECKED BY	APPROVAL	DRAWING NO.
2		C.C.S	TED JU	TED JU	CR2032-S
		021598	021598	021598	

QMFZ2
Component - Plastics

January 20, 1998

TEIJIN LTD

E52857 (M)

(E005 - cont. from E card)

CN70ZZ+(F1)%	All	0.66	94V-0	130	120	130	3	0	—	—	—
		0.71	94V-0	130	120	130	3	1	—	—	—
		0.84	94V-0	130	120	130	4	0	—	—	—
		1.0(t4)	94V-0	130	120	130	4	0	—	—	—
		1.5(t4)	94V-0	130	120	130	3	0	—	—	—
		3.0(t3)	94V-0	130	120	130	2	0	0	6	3
CN7030+(F1)%	All	0.66	94V-0	130	125	140	3	0	—	—	—
		0.84	94V-0	130	125	140	3	0	—	—	—
		1.0(t5)	94V-0	130	125	140	3	0	—	—	—
		1.5(t4)	94V-0	130	125	140	2	0	—	—	—
		3.0(t5)	94V-0	130	130	140	1	0	0	6	3
		0.71	94V-0	75	75	75	4	0	4	—	—
CHN7000+	All	1.5	94V-0	75	75	75	4	0	3	—	—
		3.0	94V-0	75	75	75	3	0	3	7	2

Reports: June 10, 1993; June 10, 1993; August 23, 1973.

Replaces E52857E005 dated April 25, 1996.

699837008

H7047

Underwriters Laboratories Inc.®

(Cont. on E010 card)

011/0032925

PBT 的物理特性

P B T								
C7000	C7030	CN7000	CN7015	CN7030	CRN7015	CRN7030	CRN7330	CRN7740B
1.31	1.53	1.42	1.50	1.70	1.58	1.69	1.69	1.69
0.09	0.06	0.08	0.06	0.06	0.08	0.08	0.05	0.05
1.4-2.2	0.3/1.1	1.2-2.2	0.4/1.6	0.2/1.0	0.3/1.0	0.1/1.0	0.1/1.0	0.2/0.6
50	140	60	85	135	100	145	135	115
100	6.3	20	5.0	5.0	5.0	5.0	5.5	4.5
83	205	95	125	215	145	210	200	150
2.4	8.8	2.7	5.3	10	6.1	9.8	9.0	11
54	92	34	55	90	40	70	80	70
NB	785	539	330	665	390	880	980	590
M80	M96	M85	M93	M96	M100	M103	M93	M93
0.13	0.14	0.13	0.14	0.14	0.14	0.14	0.16	0.15
11	25	15	23	23	23	33	30	30
222	222	222	222	222	222	222	222	222
155	220	145	215	220	210	216	216	210
58	210	60	200	210	195	206	206	180
8.0	3.0	7.0	5.0	3.0	4.0	2.0	2.0	3.0
HB	HB	V-0	V-0	V-0	V-0	V-0	V-0	V-0
$>10^{15}$	$>10^{15}$	$>10^{16}$	$>10^{16}$	$>10^{16}$	$>10^{16}$	$>10^{16}$	$>10^{16}$	$>10^{16}$
31	32	27	27	30	25	27	27	32
3.3	3.7	3.2	3.6	3.8	4.3	4.5	4.3	4.2
3.3	3.7	3.2	3.6	3.8	4.2	4.5	4.2	4.2
0.001	0.002	0.001	0.001	0.001	0.004	0.005	0.004	0.005
0.001	0.002	0.001	0.002	0.002	0.004	0.005	0.004	0.012
91	105	70	70	85	46	38	38	-
標準 阻燃性 GF0%	標準 阻燃性 GF30%	標準 耐燃 GF0%	標準 耐燃 GF15%	標準 耐燃 GF30%	低揮發 耐燃 GF15%	低揮發 耐燃 GF30%	低揮發強韌 耐燃 GF30%	短曲率小 耐燃

PBT

Glade	Col	Min)Thk (mm)	UL94 Flame Class	R T I			HWI	HAI	HVTR	D495	CTI
				Elec	Mech						
					W Imp	W/O Imp					
C7000	A11	0.71	HB	130	120	140	4	1	1	6	0
C7030	A11	0.78	HB	130	130	140	3	1	2	6	2
CN7000	A11	0.66	V-0	130	120	130	4	0	0	6	3
CN7030	A11	0.66	V-0	130	125	140	3	0	0	6	3
CRN7030	A11	0.32	V-0	140	120	140	4	3	0	6	2
CRN70301	A11	0.70	V-0	75	75	75	3	1	2	6	2
CRN77401	A11	0.70	V-0	75	75	75	3	4	0	5	2

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