



SPECIFICATION

DESCRIPTION : 1.27mm SMT TYPE PLCC SOCKET

1. MATERIAL :

ITEM	DESCRIPTION	REQUIREMENT
1-1	Insulator	PPS + 40% G.F. (UL94V-0)
1-2	Contact	Phosphor Bronze
1-3	Plating	Gold / Tin over Nickel Plated

2. CHARACTERISTICS :

ITEM	DESCRIPTION	REQUIREMENT
2-1	Current rating	1 A AC, DC
2-2	Voltage rating	250 V AC, DC
2-3	Temperature rating	-55°C ~ 105°C

3. Construction and dimensions shall be in accordance with the referenced drawings.

4. ELECTRICAL PERFORMANCE :

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
4-1	Dielectric withstanding Voltage	Unmated connector shall be tested in accordance with method 3001.1 of MIL-STD-1344A when the AC 600 V rms for one minute applied between adjacent contacts.	No evidence of breakdown and flashover
4-2	Insulation resistance	It should be tested in accordance with method 3003.1 of MIL-STD-1344A.	Initial:10000 Megaohms min. After humidity and thermal shock test : 1000 Megaohms min.
4-3	Contact resistance	It should be tested in accordance with method 3004.1 of MIL-STD-1344A.	Initial : 20 miliohms max. After environmental test : 40 miliohms max.

5. MECHANICAL PERFORMANCE :

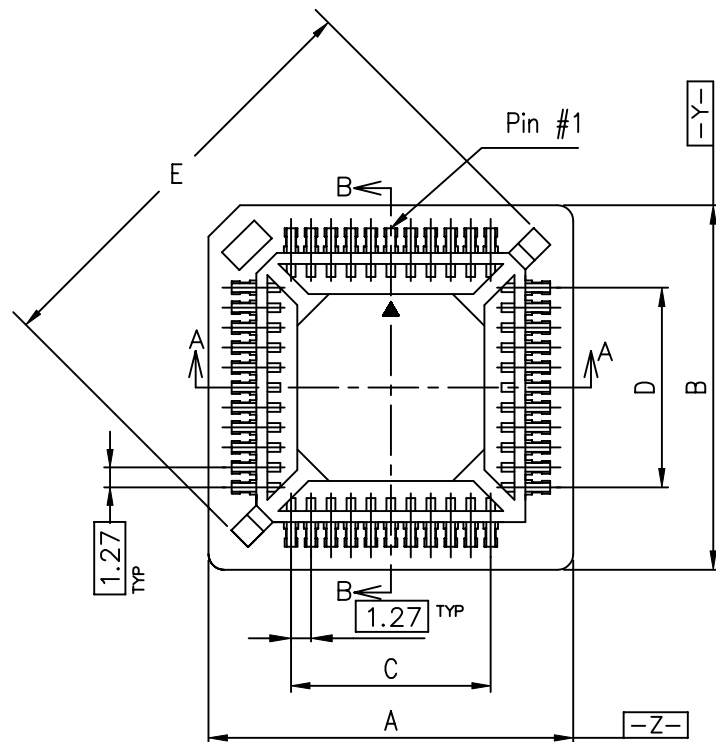
ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
5-1	Contact retention force	Contact mounted in a housing shall be pulled in an alignment at a constant speed of 25mm/minute.	250 gram min.
5-2	Insertion force	Housing with contact mating header at a constant speed of 25mm/minute.	50 gram max.
5-3	Withdrawal force	Housing with contact mating header, pull out from header at speed 25mm/minute.	10 gram min.
5-4	Durability	It should be tested in accordance with method 2016 of MIL-STD-1344A. Connector shall be subject to 30 cycles of insertion and withdrawal.	No defects. Contact resistance shall be 20 miliohms max.
5-5	Vibration	The connector mated PCB shall be vibrated in accordance with method 2005.1 of MIL-STD-1344A test condition B. There shall be no current discontinuity longer than 1 microsecond during the test. Frequency : 10-2000-10 Hz/20min. Amplitude : 1.5mm(10Hz-54Hz) Acceleration : 15G(55Hz-2000Hz) Period : 4 hours for each direction Direction : X, Y, Z	No evidence of loosening of parts or electric discontinuity. Contact resistance less than twice of initial.

6. ENVIRONMENTAL PERFORMANCE :

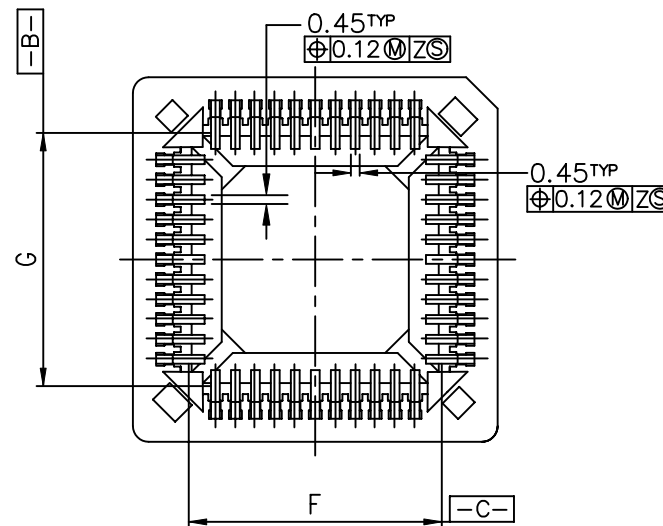
ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
6-1	Humidity	The unmated connector shall be Tested in accordance with method 1002.2 of MIL-STD-1344A test procedure type I condition B. Temperature : $40 \pm 2^{\circ}\text{C}$ Humidity : 90 ~ 95 % (RH) Period : 48 hours.	No damage. Contact resistance less than twice of initial. Insulation resistance : to pass para. 4-2. Dielectric withstanding voltage : to pass para 4-1.
6-2	Thermal Shock	Connector shall be subjected to thermal shock cycling in accordance with method 107E. of MIL-STD-202F condition B. one cycle consists of : -25 °C for 30 minutes. +105 °C for 30 minutes. Time of cycle : 25 cycles.	No damage. Contact resistance less than twice of initial. Insulation resistance : to pass para. 4-2. Dielectric withstanding voltage : to pass para 4-1.
6-3	Salt spray	Connector shall be tested in accordance with method 1001.1 of MIL-STD-1344A condition B. Temperature : $35 \pm 2^{\circ}\text{C}$ Density : 5 % in weight. Period : 48 hours.	No damage. Contact resistance less than twice of initial.
6-4	Solderability	Connector termination ends shall be checked for solderability in accordance with method 208 of MIL-STD-202F. Solder temperature : $230 \pm 5^{\circ}\text{C}$ Immersion period : 5 ± 0.5 sec.	No damage. Minimum : 95% of immersed area.
6-5	Resistance to soldering heat	Specimen shall be mounted on PCB. Solder temperature : $260 \pm 5^{\circ}\text{C}$ Immersion period : 5 ± 0.5 sec.	No damage and deformation.

APPR BY : _____ **CHKD BY :** _____ **SPEC BY :** _____

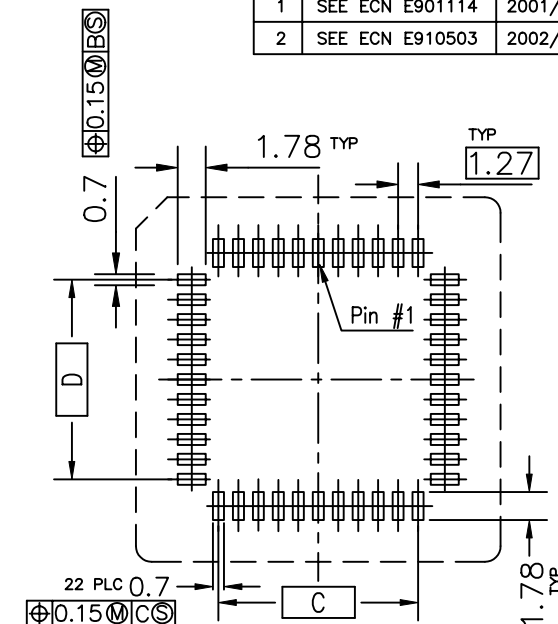
REV	DESCRIPTION	DATE
1	SEE ECN E901114	2001/11/15
2	SEE ECN E910503	2002/05/02



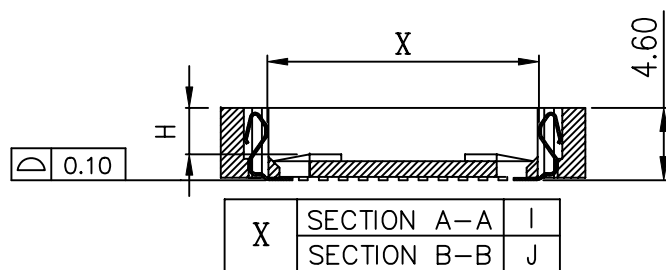
TOP VIEW



BOTTOM VIEW



PCB FOOTPRINT



84	35.90	35.90	25.40	25.40	45.20	28.80	28.80	2.90	29.69	29.69
68	30.82	30.82	20.32	20.32	37.98	23.72	23.72	2.90	24.61	24.61
52	25.74	25.74	15.24	15.24	30.78	18.64	18.64	2.75	19.53	19.53
44	23.20	23.20	12.70	12.70	27.20	16.10	16.10	2.90	16.99	16.99
32	18.12	20.66	7.62	10.16	21.89	11.02	13.56	2.60	11.90	14.45
28	18.12	18.12	7.62	7.62	20.00	11.02	11.02	2.75	11.90	11.90
20	15.58	15.58	5.08	5.08	16.38	8.48	8.48	2.75	9.36	9.36
NO. OF POSITIONS	A	B	C	D	E	F	G	H	I	J

MOBICON
Electronic Components

TITLE
PLCC SOCKET SMT TYPE
(20P ~ 84P)

DWG NO.	100376	REV.	A2
PART NO.	141XX-0X17X0XN	SHEET	1/2

TOLERANCE	MATERIAL	UNITS	SCALE	DATE
.X ±0.30	X* ± 2"	mm		2001/11/15
.XX ±0.20	X*X' ± 1"	APPROVAL	CHECKED	DRAWN
.XXX ±0.10			ashun	PROJ.

MATERIAL:

HOUSING: PPS+40% GF UL94 V-0, Brown.

CONTACT: Phosphor Bronze.

FINISH:

CONTACT: 100 μ " Min. Tin/Lead plated on soldering
end over 50 μ " Min. Nickel under-plating.

SPECIFICATION:

Current Rating: 1 A.

Voltage Rating: 250 V.

Dielectric Strength: 600V for one minute.

Contact Resistance: 20 m Ω MAX.

Insulator Resistance: 1000M Ω min. at 500V DC.

Temperature: -55°C ~ +105°C

Durability: 25 Cycles.

ORDER INFORMATION:

141 XX - 0 X 1 7 0 0 X N

Series No. _____

no.of contact _____
20P~84P

Contact Plated: _____
0-TIN

Contact Material/Type: _____
0-Phos. bronze/A-Type
1-Phos. bronze/S-Type

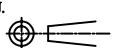
Insulator Material: _____
1-PPS

Logo: N-No Logo

Packaging:
1-Tube
2-Tape Reel

Post : 0-Without

Insulator Color:
7-Brown

TOLERANCE		MATERIAL	UNITS	SCALE	DATE
.X	± 0.30	X" ± 2 "	SEE NOTE	mm	2002/05/02
.XX	± 0.20	X"X' ± 1 "	APPROVAL	CHECKED	DRAWN
.XXX	± 0.10			ashun	PROJ. 

MOBICON
Electronic Components

TITLE		DWG NO.	REV.
PLCC SOCKET SMT TYPE (20P ~ 84P)		100376	A2
PART NO.		SHEET	
141XX-0X17X0XN		2/2	