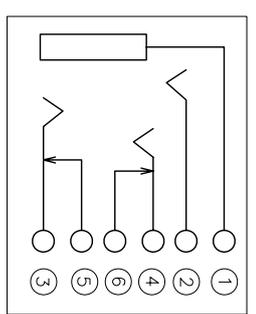
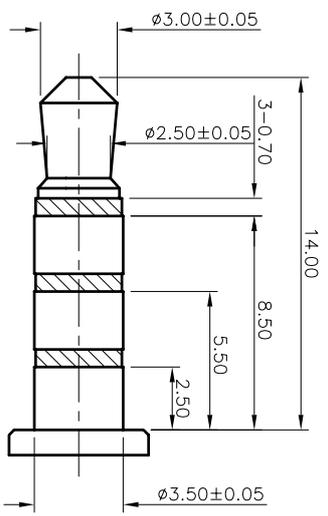
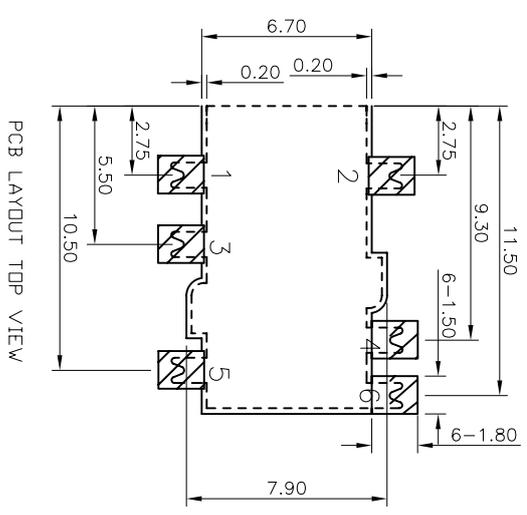
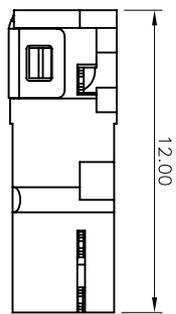
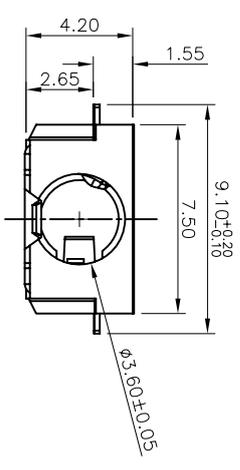
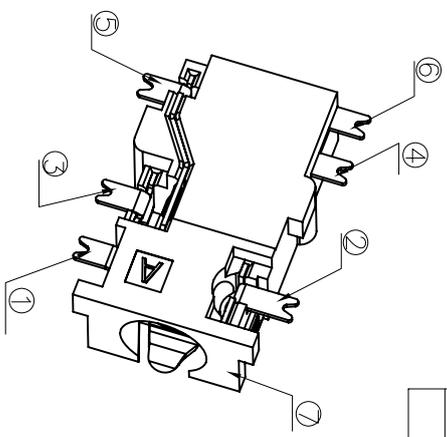
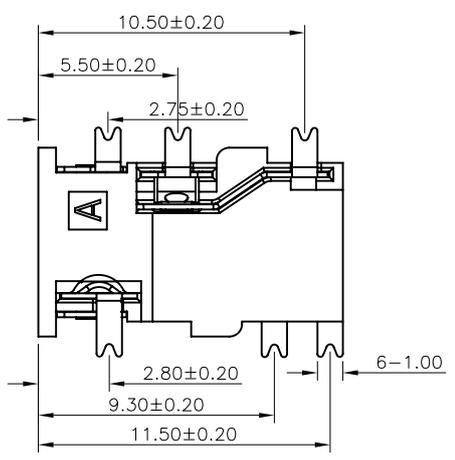


REV.	ECN NO.	LOCAS.	DESCRIPTION	DATE	DESIGN
A			RELEASE TO CUSTOMER	130205	HANG



- NOTES:
- REQUEST OF THE SPECIFICATION:
 - CONTACT CURRENT RATING: 1A.;
 - CONTACT RESISTANCE: 50 mΩ MAX.;
 - INSULATION RESISTANCE: 100MΩ MIN.;
 - DIELECTRIC WITHSTANDING: 500V AC MIN.;
 - DURABILITY: 5,000 CYCLES MIN.;
 - CONNECTOR MATING FORCES: 29.8N (3.00kgf) MAX.;
 - CONNECTOR UNMATING FORCES: 2.98N(0.30kgf) MIN.;
 - MARKED \otimes DIMENSION SHOULD BE MEASURED BY FAI.
 - MARKED \blacktriangledown DIMENSION SHOULD BE MEASURED BY QIP.
 - UNLESS OTHERWISE SPECIFIED, NO MARKED DIMENSIONS ARE REF.
 - PRODUCT MEET THE REQUEST OF THE ROHS, SEE TABLE A:

(ø3.50mm 4 POLE PLUG DETAIL DRAWING)

ITEM	PART NAME	QTY	MATERIAL	DESCRIPTION
⑦	HOUSING	1	LCP+30%G.F	BLACK
⑥	TERMINAL F	1	C2680R-H 0.20T	2u" GOLD/50~80u" NICKEL
⑤	TERMINAL E	1	C2680R-H 0.20T	2u" GOLD/50~80u" NICKEL
④	CONTACT D	1	C17200 290 TMO4 0.20T	2u" GOLD/50~80u" NICKEL
③	CONTACT C	1	C17200 290 TMO4 0.20T	2u" GOLD/50~80u" NICKEL
②	CONTACT G	1	C5191R-H 0.20T	2u" GOLD/50~80u" NICKEL
①	CONTACT H	1	C5210R-EH 0.20T	2u" GOLD/50~80u" NICKEL

DIM	TOL	DIM	TOL
X	±0.30	X	±4.0"
X X	±0.25	X X	±3.0"
X.XX	±0.20	X.XX	±2.0"
X.XXX	±0.10	X.XXX	±1.0"

LASTAR
Lastar Technology CO., LTD

DRAW NO.	054-71H-XX05	DATE	130205
DESIGN	HANG	CHECK	130205
APPROVED	HUYX		130205

DRAW NAME:	手机插座 3.5MM 6PIN 沉板2.7 无头 短座
P/N NO.	PJ-3627-01
UNIT:	mm
SHEET:	N/A
MODEL:	REV. A
SCALE:	N/A

1

2

3

4

Specification

TITLE	STATUS	SPEC. NO.	DATE	PAGE NO.
3.5 EARPHONE JACK	GENERAL		2012.01.25	1/5

1. **GENERAL SCOPE**

THIS SPECIFICATION COVERS THE GENERAL REQUIREMENTS OF THE Ø3.5 EARPHONE JACK APPLIED ON AUDIO SYSTEMS AND OTHER RELATED ELECTRONIC APPARATUS. ESPECIALLY THIS SPECIFICATION APPLIED ON THE HIGH TEMP. PLASTIC FOR THE REFLOW SOLDERING PROCESS

MATED PLUG

THE MATED PLUG SHOULD COMPLIED WITH STANDARD PLUG AS SHOWN IN THE DRAWING ATTACHED, 2, 3 AND 4 POLES (PER. JIS C 6560)

2. **MECHANICAL**

2a. **TERMINAL STRENGTH**

THE TERMINALS SHALL BE CAPABLE OF WITHSTANDING A FORCE OF 500 GRAMS APPLIED IN ANY DIRECTION FOR 10 SECONDS WITHOUT LOOSING OR BREAKDOWN, EXCEPT BENDING THE TERMINALS.

CONDITIONS	VALUE OF SPEC.
INITIAL CONDITION	0.4 Kgs TO 3.0 Kgs
AFTER LIFE TEST AFTER HUMIDITY TEST AFTER HEAT TEST AFTER COLD TEST AFTER RESISTANCE TO SOLDERING HEAT TEST	0.3 Kgs TO 3.0 Kgs

EXTRACTION FORCE

CONDITIONS	VALUE OF SPEC.
INITIAL CONDITION	0.4 Kgs TO 3.0 Kgs
AFTER LIFE TEST AFTER HUMIDITY TEST AFTER HEAT TEST AFTER COLD TEST AFTER RESISTANCE TO SOLDERING HEAT TEST	0.3 Kgs TO 3.0 Kgs

3. **ELECTRICAL**

3a. **WITHSTAND VOLTAGE TEST**

250 VOLTS AC/RMS OF COMMERCIAL FREQUENCY 50 TO 60 Hz APPLIED BETWEEN ADJACENT OPEN TERMINALS FOR 1 MINUTE WITHOUT BREAKDOWN

3b. **INSULATION RESISTANCE**

THE INSULATION RESISTANCE BETWEEN MUTUAL INSULATED CONTACTS SHOULD COMPLIED WITH FOLLOWING SPECIFICATION UNDER 250 VOLTS DC (METHOD C UNLESS OTHERWISE SPECIFIED)

				A	Richard	C	Richard	W	Richard
				P		H		R	
				V		K		T	
				D		D		N	
REV.	NAME	DATE	REMARK						

Specification

TITLE	STATUS	SPEC. NO.	DATE	PAGE NO.
3.5 EARPHONE JACK	GENERAL		2012.01.25	2/5

CONDITIONs	VALUE OF SPEC.
INITIAL CONDITION AFTER LIFE TEST AFTER HEAT TEST AFTER COLD TEST AFTER RESISTANCE TO SOLDERING HEAT TEST	100 M MIN.
AFTER HIMIDITY TEST	50 M MIN.
NOTE : THE MATED PLUG USED TO THIS MEASUREMENT SHALL BE ALLOWED TO CLEAN AND REMOVE OXIDATION FILM ON THE SURFACE BEFORE TEST.	

3c. CONTACT RESISTANCE

CONTACT RESISTANCE OF JACK SHALL NOT EXCEED THE VALUE DEFINED IN THE TABLE LISTED AT A CURRENT LESS THAN 100 mA WITH FREQUENCY OF 1 KHz BY FOUR TERMINALS METHOD

CONDITIONs	VALUE OF SPEC.	
	PLUG TO CONTACTs	CONTACT TO SHUNT
INITIAL CONDITION AFTER HUMIDITY TEST AFTER HEAT TEST AFTER COLD TEST AFTER RESISTANCE TO SOLDERING HEAT TEST	50 m MAX.	30 m MAX.
AFTER DURABILITY TEST	100 m MAX.	60 m MAX.
NOTE : THE MATED PLUG USED TO THIS MEASUREMENT SHALL BE ALLOWED TO CLEAN AND REMOVE OXIDATION FILM ON THE SURFACE BEFORE TEST.		

4. ENDURANCE

DURABILITY TEST

THE DURABILITY TEST SHALL CONSIST OF 12000 MATING CYCLEs OF INSERTION AND EXTRACTION WITH THE MATED PLUG OR THE GAUGE PLUG AT A RATE 10 ~ 20 CYCLEs PER MINUTE, N

LOAD

CONDITION, WITH OR WITHOUT LUBRICANT WHICH SHOULD BE SPECIFIED THE DETAIL

REQUIREMENT. THE PERFORMANCE OF THE JACK BEFORE AND AFTER THIS TEST SHOULD COMPLY WITH PARAGRAPHS 2b AN 3c.

MEASURING CONDITION

ALL MEASUREMENTs AND TEST SHALL BE MADE AT A TEMPERATURE 10⁰C TO 35⁰C WITH A RELATIVE HUMIDITY OF 45%RH TO 85%RH UNDER STANDARD ATMOSPHERIC PRESSURE UNLESS OTHERWISE SPECIFIED CONDITIONs.

5. ENVIRONMENT

5a. HUMIDITY TEST

THE JACK SHALL BE PLACED IN THE TESTING CHAMBER AT THE CONDITION OF 40⁰C ± 2⁰C AND THE RELATIVE HUMIDITY OF 90% TO 95% RH FOR 96 Hrs, THE DEW DROPS ON THE SURFACE OF JACK SHALL BE BLOWN OFF AND REMOVED FROM THE SURFANCE OF JACK AND THEN PLACED IN AMBIENT TEMPERATURE FOR MORE THAN 30 MINUTEs, RECOVERY PERIOD. THE RELATIVE TEST BEFORE AND AFTER THIS TEST SHOULD COMPLIED WITH PARAGRAPH 3a AND 3b.

				A	Richard	C	Richard	W	Richard
				P		H		R	
				V		K		T	
				D		D		N	
REV.	NAME	DATE	REMARK						

Specification

TITLE	STATUS	SPEC. NO.	DATE	PAGE NO.
3.5 EARPHONE JACK	GENERAL		2012.01.25	3/5

5b. HEAT TEST

THE JACK SHALL BE PLACED IN THE TESTING CHAMBER AT A TEMPERATURE OF $85^{\circ}\text{C} \pm 2^{\circ}\text{C}$ AND THE RELATIVE HUMIDITY OF LESS THAN 50%RH FOR 96 Hrs AND THEN PLACED IN AMBIENT TEMPERATURE FOR MORE THAN 30 MINUTES, RECOVERY PERIOD. THE RELATIVE TEST BEFORE AND AFTER THIS TEST SHOULD COMPLIED WITH PARAGRAPH 3c.

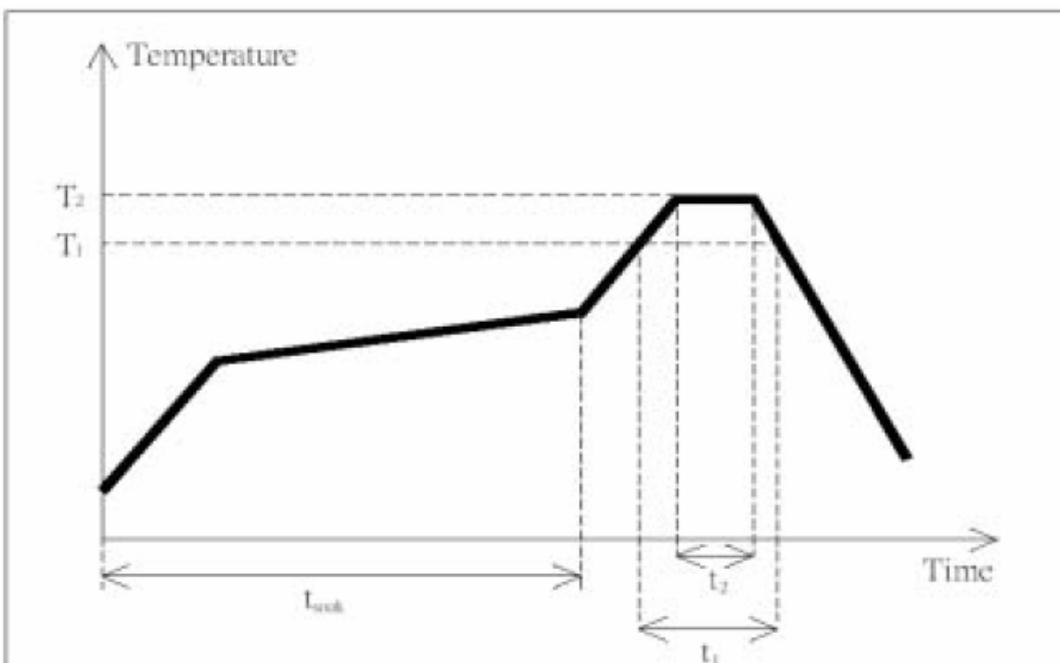
5c. COLD TEST

THE JACK SHALL BE PLACED IN THE TESTING CHAMBER AT A TEMPERATURE OF $-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ AND THE RELATIVE HUMIDITY OF LESS THAN 50%RH FOR 96 Hrs AND THEN PLACED IN AMBIENT TEMPERATURE FOR MORE THAN 30 MINUTES, RECOVERY PERIOD. THE RELATIVE TEST BEFORE AND AFTER THIS TEST SHOULD COMPLIED WITH PARAGRAPH 3c.

6. SOLDERING TEST

6.a REFLOW PROFILE FOR SOLDERABILITY TESTING

Reflow profile for solderability Testing:		
Item	Time	Specification
Pre Heating		$\leq 3^{\circ}\text{C}/\text{Sec}$
Flux Wetting	T_{soak}	2~3Min
Time Over 217°C	t_1	$\leq 30\text{Sec}$
Peak Temp	T_2	$230^{\circ}\text{C} (-0/+5^{\circ}\text{C})$
Peak Time	t_2	10Sec
Speed of Cooling		$< 6^{\circ}\text{C}/\text{Sec}$



				A		C	W
				P	Richard	H	R
				V		K	R
				D		D	T
REV.	NAME	DATE	REMARK				N

Specification

TITLE	STATUS	SPEC. NO.	DATE	PAGE NO.
3.5 EARPHONE JACK	GENERAL		2012.01.25	5/5

9. MATERIAL AND FINISH

TERM	MATERIAL	COLOR	PLATING	REMARK
PLASTIC HOUSING<P1>	PA	BLACK		UL94V-0 RATED
R CONTACT<M1>	COPPER		Au	20T
R SHUNT<M2>	COPPER		Au	25T
T SHUNT<M3>	COPPER		Au	25T
T CONTACT<M4>	COPPER		Au	20T
GROUND CONTACT<M5>	COPPER		Au	20T
R2 CONTACT<M6>	COPPER		Au	20T

10. REMARK OF PARTs

				A		C	W
				P	Richard	H	R
				V		K	T
				D		D	N
REV.	NAME	DATE	REMARK				