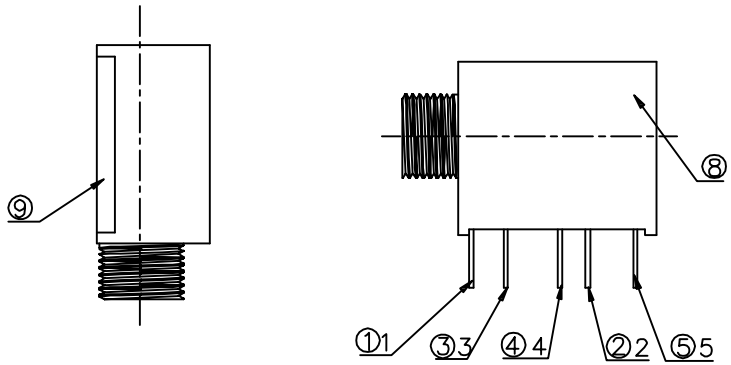
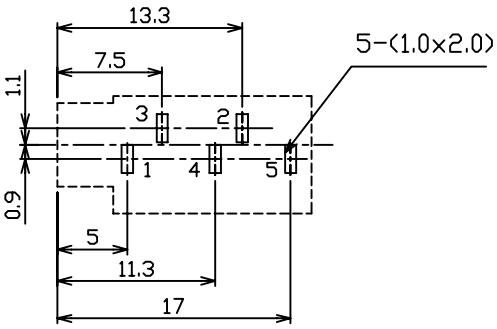
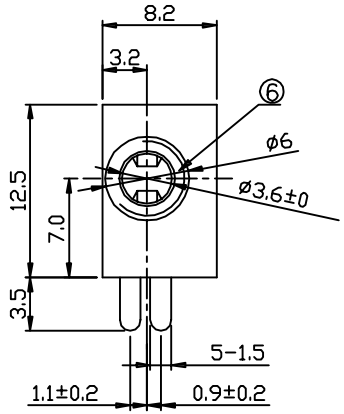
DWG. NO. JK-4004-F REV. "A"

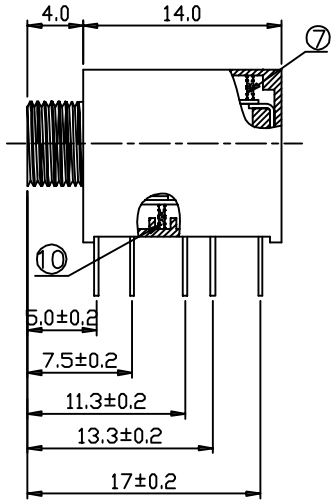
PART NO. RSJ-372-NL

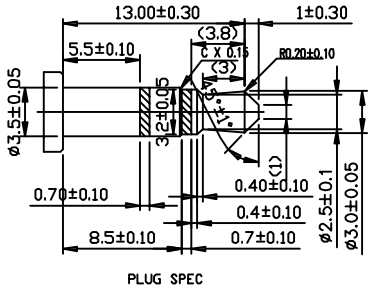




PCB LAYOUT TOP VIEW





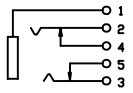


PLUG SPEC

NOTE: ALL DIMS ARE IN mm

No.	ITEM	QTY	MATERIAL(THICK, COLOR)	REMARK
⑩	SPRING	1	MUSIC WIRE	CuSn-Plated
⑨	HOUSING	1	PBT(Black)	
⑧	HOUSING	1	PBT(Black)	
⑦	SPRING	1	MUSIC WIRE	CuSn-Plated
⑥	FIX TURN	1	H59(Cu-Alloy)	CuSn-Plated
⑤	TERMINAL	1	BRASS t=0.30	Ag-Plated
④	TERMINAL	1	BRASS t=0.30	Ag-Plated
③	TERMINAL	1	PHOSPHOR BRO NZE t=0.30	Ag-Plated
②	TERMINAL	1	BRASS t=0.30	Ag-Plated
①	TERMINAL	1	BRASS t=0.30	Ag-Plated

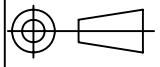
THREAD:M6.0-0.5

SCHEMATIC	
THREAD	RSJ-372-NL
NON THREAD	RSJ-372N-NL

CIRCUIT DIAGRAM

ECN#	DATE	SYM	REVISION RECORD	AUTH	BY
12-115	06/26/12	A	CHANGE THE VIEW AND INSTRUCTIONS	MD	TL

PROJECTION



SCALE N/A

TOLERANCE EXCEPT AS NOTED

DEC. MILLIMETERS
X.± 0.5
X.X ± 0.3
X.XX ± 0.15

ANG. ±3°

RDI Research Develop Innovate

RDI, Inc. 333 North Bedford Road, Suite 135, Mount Kisco, NY 10549

TITLE: 3.5mm jack PC Mount , RoHS Compliant

DR.	DATE	REF.	SHEET
Aris	11/24/10	P/N: RSJ-372-NL	1 OF 3

CK.	PRE-	DRAWING NO.	SIZE	REV.
MD	JK	4004	F	A

THIS DOCUMENT IS OWNED BY, AND THE INFORMATION CONTAINED IN IT IS PROPRIETARY TO, RDI, BY RECEIPT HEREOF THE HOLDER AGREES NOT TO USE THE INFORMATION AND NOT TO DISCLOSE IT TO ANY THIRD PARTY, NOR REPRODUCE THIS DOCUMENT WITHOUT THE WRITTEN CONSENT OF RDI, AND AGREES TO RETURN THIS DOCUMENT FORTHWITH UPON REQUEST.

RIPTION
TITLE : 3.5mm JACK PC MOUNT , ROHS COMPLIANT
P/N : RSJ-372-NL

1 . RATING : DC 50V 0.3A

PRACTICAL TEMPERATURE RANGE	-16~65oC In-16 C ~ + 65 C temperature inside and use
STANDARD ATMOSPHEIC CONDITIONS	UNLESS OTHERWISE SPECIFIED THE STANDARD RANGE OF ATMOSPHERIC CONDITIONS FOR MAKING MEASUREMENTS AND TESTS ARE AS FOLLOWS: (1) BETWEEN BODY AND CONDUCTOR: 5oC TO 35℃ (2) BETWEEN CONDUCTORS NOT TO BE CONTACT： 45% TO 85% (3) PRESSURE： 86Kpa TO 106Kpa

2 . MECHANICAL

	ITEM	TEST CONDITIONS	PERFORMANCE
2.1	CONNECTION FORCE	MEASUREMENT SHALL BE MADE AFTER CONNECTING AND DISCONNECTING USING STANDARD PLUG GAUGE 3 TIMES.	3~20N
	DISCONNECT ON FORCE	MEASUREMENT SHALL BE MADE AFTER CONNECTING AND DISCONNECTING USING STANDARD PLUG GAUGE 3 TIMES.	3~20N
2.2	TERMINAL STRENGTH	A STATIC LOAD OF 0.1N/m(1kgf/cm)SHALL BE APPLIED TO THE TIP OF THE TERMINAL FOR 1MIN IN ANY DIRECTION	THERE SHALL BE NO DAMAGE TO THE TERMINAL SUCH AS CRACKS, LOOSENESS OR PLAY ELECTRICAL ,AND MECHANICAL CHARACTERISTICS SHALL BE SATISFIED

3 . ELECTRICAL

	ITEM	TEST CONDITIONS	PERFORMANCE
3.1	CONTACT RESISTANCE	MEASURED AT SMALL CURRENT （100m A OR LESS） 1000Hz	≤0.03Ω
3.2	INSULATION RESISTANCE	APPLY A VOLTAGE OF 500V DC FOR 1 MIN TO FOLLOWING PORTIONS AFTER WHICH MEASUREMENT SHALL BE MADE: (1) BETWEEN BODY AND CONDUCTOR (2) BETWEEN CONDUCTORS NOT TO BE CONTACT (3) BETWEEN CONDUCTORS NOT TO BE WHEN PLUG IS INSERTED DC 500V 1 MIN	≥100MΩ
3.3	DIELECTRIC STRENGTH	AC 500V ims(50~60Hz)FOR 1 MIN TRIP CURRENT:0.5mA (1) BETWEEN BODY AND CONDUCTOR (2) BETWEEN CONDUCTORS NOT TO BE CONTACL (3) BETWEEN CONDUCTORS NOT TO BE WHEN PLUG IS INSERTED DC 500V 1 MIN	WITHOUT DAMAGE TO PARTS ARCING OR BREAKDOWN ETC

4 . USABILITY

	ITEM	TEST CONDITIONS	PERFORMANCE
4.1	SOLDER ABILITY TEST	THE TOP OF THE TERMINALS SHALL BE DIPPED 1mm IN THE SOLDER BATH OF 240±5℃ FOR 3±0.5 SECONDS	（1） SOLDER WETTING TIME SHALL BE 3 SEC OR LESS （2） THE AREA OF SOLDERING SHOULD BE OVER 75%
4.2	RESISTANCE TO SOLDERING HEAT TEST	SOLDERING IRON METHOD: BIT TEMPERATURE 330±5℃ APPLICATION TIME OF SOLDERING IRON3±0.5 SEC HOWEVER EXCESSIVE PRESSURE SHALL NOT BE APPLIED TO THE TERMINAL	WITHOUT DEFORMATION OF CASE OR EXCESSIVE LOOSENESS OF TEMINALS ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED
4.3	HUMIDITY TEST	THE JACK SHALL BE STORED AT A TEMPERATURE OF 40±2℃ AND A HUMIDITY OF 90%TO 96% FOR 96 Hr,THEN THE JACK SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITION FOR 1 Hr FOR OTHER PROCEDURES	THERE SHALL BE NO DAMAGE ON APPEARANCE. MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED
4.4	HEAT TEST	THE JACK SHALL BE STORED AT A TEMPERATURE OF70±2℃ FOR 96 HOURS， AND THEN IT SHALL BE SUBJECTED TO THE CONTROLLED RECOVERY MBASURBM	
4.5	COLD TEST	THE JACK SHALL BE STORED AT A TEMPERATURE OF-25±3℃ FOR 96 HOURS AND THEN IT SHALL BE SUBJECTED TO THE CONTROLLED RECOVERY CONDITIONS FOR 1 HOUR AFTER WHICH	

ECN#	DATE	SYM	REVISION RECORD	AUTH	BY
12-115	06/26/12	A	CHANGE THE VIEW AND INSTRUCTIONS	MD	TL

PROJECTION

SCALE N/A

TOLERANCE EXCEPT AS NOTED

DEC. MILLIMETERS
X.± 0.5
X.X ± 0.3
X.XX ± 0.15

ANG. ±3°

RDI Research Develop Innovate

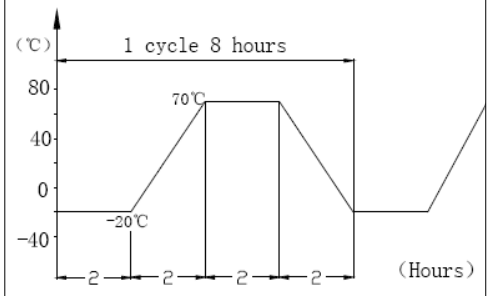
RDI, Inc. 333 North Bedford Road, Suite 135, Mount Kisco, NY 10549

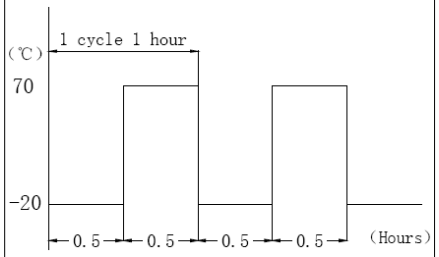
TITLE 3.5mm jack PC Mount , RoHS Compliant

DR.	DATE	REF.	SHEET
Aris	11/24/10	P/N: RSJ-372-NL	2 OF 3

CK.	PRE-	DRAWING NO.	SIZE	REV.
MD	JK	4004	F	A

THIS DOCUMENT IS OWNED BY, AND THE INFORMATION CONTAINED IN IT IS PROPRIETARY TO, RDI, BY RECEIPT HEREOF THE HOLDER AGREES NOT TO USE THE INFORMATION AND NOT TO DISCLOSE IT TO ANY THIRD PARTY, NOR REPRODUCE THIS DOCUMENT WITHOUT THE WRITTEN CONSENT OF RDI, AND AGREES TO RETURN THIS DOCUMENT FORTHWITH UPON REQUEST.

	ITEM	TEST CONDITIONS	PERFORMANCE
4.6	LIFE TEST	WITHOUT LOAD CONNECTION AND DISCONNECTION SHALL BE MADE WITH THE MATING PLUGS AND JACKS FOR 5，000 CYCLES AT A SPEED OF 10 TO 25 CYCLES/MIN LOAD： AT RATING CONDITION （NON-INDUCTIVE LOAD） CONNECTION AND DISCONNECTION SHALL BE MADE 1,000 CYCLES AT A SPEED 10 TO 20 CYCLES / MIN	(1) CONTACT RESISTANCE SHALL BE ≤ 0.1Ω (2) DISCONNECTION FORCE SHALL BE 3 TO 20N (3) MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED
4.7	TEMPARATURE CYCLING TEST	THE JACK SHALL BE SUB JECTED TO 5 CYCLES OF THE FOLLOWING CONDITIONS SHOWED IN THE FIGURE,AND THEN SHALL RETURNED ALLOWED TO REMAIN IN ROOM AMBIENT CONDITION FOR 30 MINUTES  	THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART. INSERTION & EXTRACTION FORCE:3 TO 20N CONTACT RESISTANCE: MAX.30MΩ INSULATION RESISTANCE: MIN.100 MΩ DIELECTRIC WITHSTANDING VOLTAGE: 500VAC/MIN (BETWEEN TERMINALS)

	ITEM	TEST CONDITIONS	PERFORMANCE
4.8	Cold&HEAT SHOCK TEST	THE JACK SHALL BE SUBJECTED TO 5 CYCLES OF THE FOLLOWING CONDITIONS SHOWED IN THE FIGURE,AND THEN SHALL RETURNED AND ALLOWED, TO REMAIN IN ROOM AMBIENT CONDITION FOR 30 MINUTES  	THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART. INSERTION & EXTRACTION FORCE:3 TO 20N CONTACT RESISTANCE: MAX.30MΩ INSULATION RESISTANCE: MIN.100 MΩ DIELECTRIC WITHSTANDING VOLTAGE:500VAC/MIN (BETWEEN TERMINALS)

ECN#	DATE	SYM	REVISION RECORD	AUTH	BY
12-115	06/26/12	A	CHANGE THE VIEW AND INSTRUCTIONS	MD	TL

PROJECTION

SCALE N/A

TOLERANCE EXCEPT AS NOTED

DEC. MILLIMETERS
X.± 0.5
X.X ± 0.3
X.XX ± 0.15

ANG. ±3°

RDI Research Develop Innovate

RDI, Inc. 333 North Bedford Road, Suite 135, Mount Kisco, NY 10549

TITLE: 3.5mm jack PC Mount , RoHS Compliant

DR.	DATE	REF.	SHEET
Aris	11/24/10	P/N: RSJ-372-NL	3 OF 3

CK.	PRE-	DRAWING NO.	SIZE	REV.
MD	JK	4004	F	A

THIS DOCUMENT IS OWNED BY, AND THE INFORMATION CONTAINED IN IT IS PROPRIETARY TO, RDI, BY RECEIPT HEREOF THE HOLDER AGREES NOT TO USE THE INFORMATION AND NOT TO DISCLOSE IT TO ANY THIRD PARTY, NOR REPRODUCE THIS DOCUMENT WITHOUT THE WRITTEN CONSENT OF RDI, AND AGREES TO RETURN THIS DOCUMENT FORTHWITH UPON REQUEST.