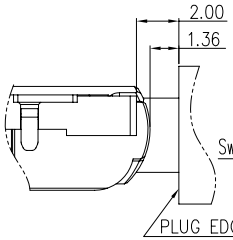
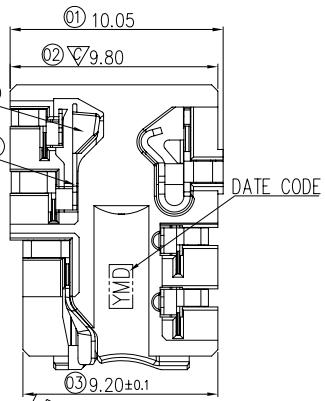
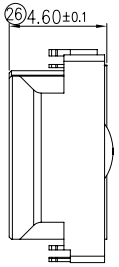
REV.	ECN NO OR DESCRIPTION	REVISED	DATE
A	PRODUCT RELEASE	Junkang	2019.05.28

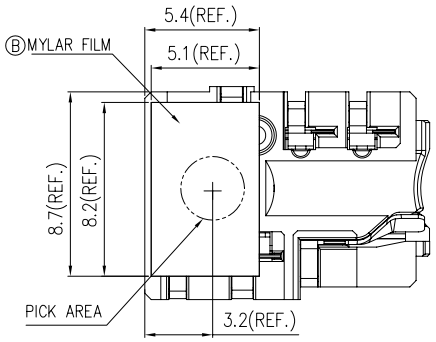


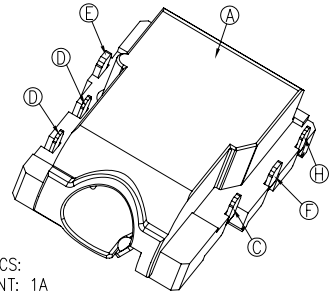
MATING VIEW

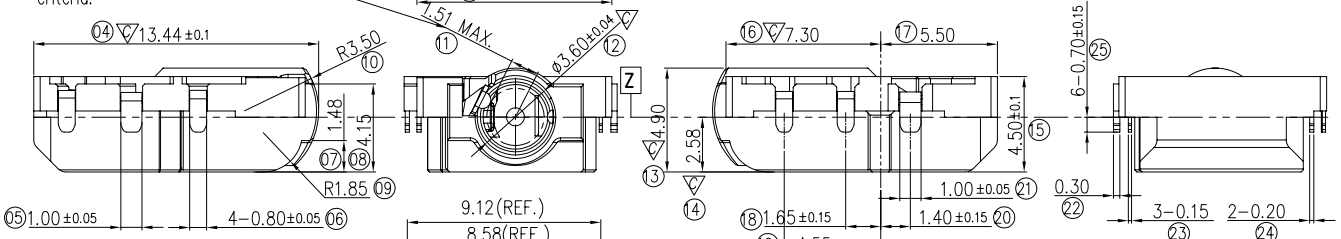
The contact function is pass between the earth spring and the plug, then the function data will be preferred as decision criteria.

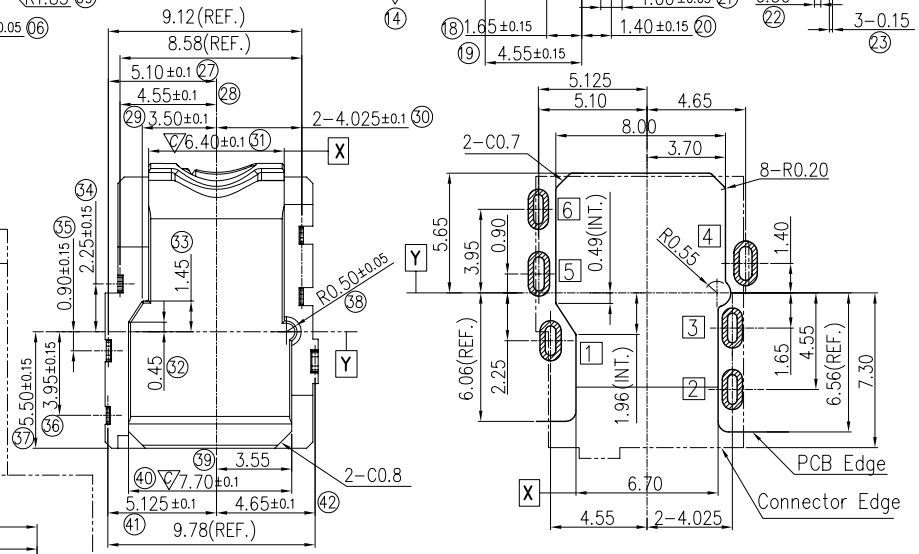








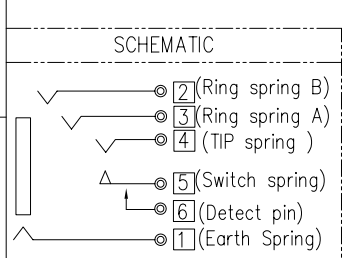


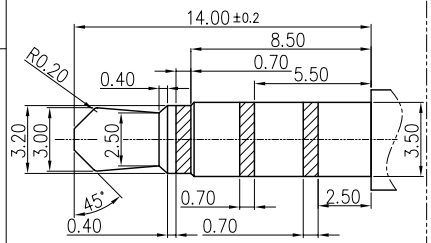


SPECIFICATIONS:

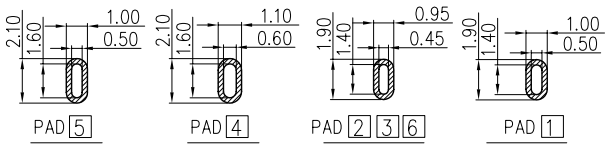
1. ELECTRICAL CHARACTERISTICS:
   - 1-1-1. RATING CURRENT: 1A
   - 1-1-2. RATING VOLTAGE: 12V
   - 1-2. CONTACT RESISTANCE: 30mΩ(INITIAL), 50mΩ(AFTER LIFE TEST)
     100mΩ for Tip spring and detect pin
   - 1-3. DIELECTRIC WITHSTANDING VOLTAGE: 500V AC FOR ONE MINUTE.
   - 1-4. INSULATION RESISTANCE: 100MΩ MIN. BY 500V DC.
2. MECHANICAL CHARACTERISTICS:
   - 2-1. INSERTION FORCE: 1.0~2.5KGF.(AFTER 5 CYCLE)
   - 2-2. WITHDRAWAL FORCE: 0.6~1.8KGF.(AFTER 5 CYCLE)
   - 2-3. LIFE TEST: 10,000 CYCLES
3. ENVIRONMENTAL CHARACTERISTICS:
   - 3-1. SALT MIST TEST CONDITION: PER IEC 68-2-52, SEVERITY(3)
   - 3-2. OPERATING TEMPERATURE: -40°~+85°C
   - 3-3. TO CONFORM TO SINGATRON HAZARDOUS SUBSTANCE FREE SPEC.
   - 3-4. ROHS COMPLIANT PRODUCT.
   - 3-5. HALOGEN FREE PRODUCT IDENTIFICATION MARK: ⓪
   - 3-6. HALOGEN FREE PRODUCT IDENTIFICATION LABEL ON PACKAGING: PB
4. OTHER GENERAL SPEC. TO REFER "2SJ2502-000111F SPEC."
5. FOR REFLOW SOLDERING LEAD-FREE PROCESS.
6. CTF NO. MARK: ▽
7. PACKAGING: TAPE & REEL.

SCHEMATIC





ø3.5MM AUDIO JACK 4 POLES PLUG(TOLERANCE: ±0.05)



RECOMMENDED PCB LAYOUT (TOP VIEW)
TOLERANCE: ±0.05MM

NO.	DESCRIPTION	QTY.	MATERIAL	PLATING & COLOR
A	Housing	1	PA-10T+30%GF, UL94 V-0	BLACK
B	Mylar	1	T=0.10mm	N/A
C	Earth Spring	1	C7025, T=0.20	3u" MIN. Au ON CONTACT AREA,ALL OVER 60u" MIN. NICKEL UNDER PLATING
D	RING Spring A/B	1	C5210, T=0.15	
E	TIP Spring	1	SUS301, T=0.30	
F	Detect Pin	1	C5210, T=0.15	
G	Insert molding	1	C5210, T=0.20(Switch Spring-Ⓗ)	ALL OVER 60u" MIN. NICKEL UNDER PLATING
			PA-10+30%GF (Block-Ⓚ)	

UNLESS OTHERWISE SPECIFIED TOLERANCES

DECIMALS: X : ±0.3, X.X : ±0.2, X.XX : ±0.15, X.XXX : ±0.1

ANGLES: X : ±2°, X.X : ±1°

Singatron Enterprise Co., Ltd.
信音企業股份有限公司

TITLE	ø3.5mm AUDIO CONNECTOR		
DWN	JunKang-Zhong	PART NO.: 2SJ2502-000111F	
CHKD	QiCai-Hu	SCALE: 3:1	UNIT: mm
APVD	Jim-deng	SIZE: A3	SHEET: 10F1 REV: A

CUSTOMER COPY

文件編號 RD-06-043-A