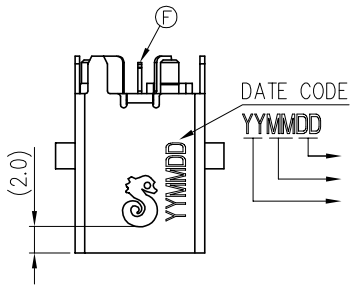
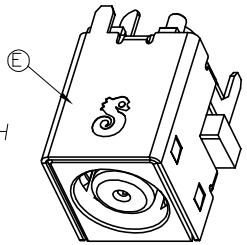
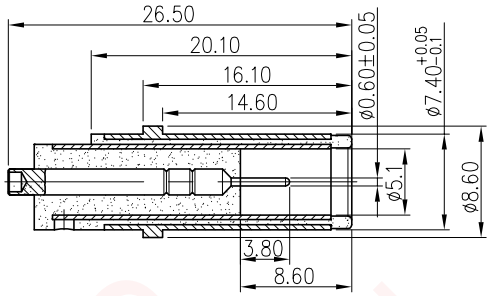
REV.	ECN NO OR DESCRIPTION	REVISED	DATE
A	PDR NO: T150109-5A	Ron	2015.05.26

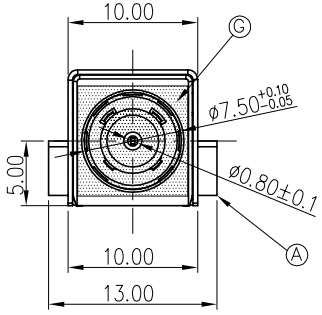


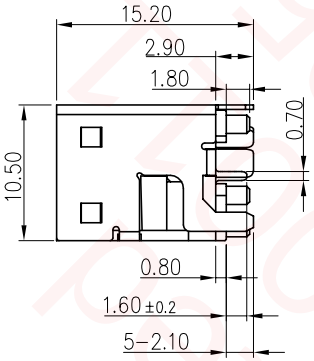


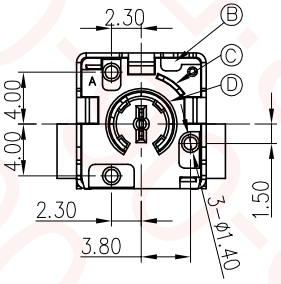


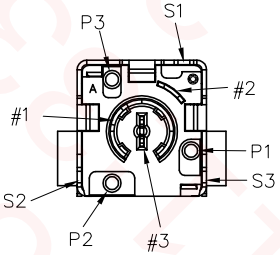
MATING PLUG
(TOLERANCE: ±0.05)

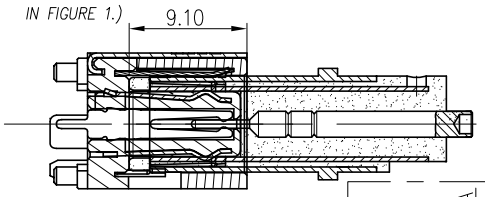
SPECIFICATIONS:
1. ELECTRICAL CHARACTERISTICS:
   1-1. RATING: 20V 13A
   1-2. CONTACT RESISTANCE: 20mΩ MAX.(INITIAL)
   1-3. DIELECTRIC WITHSTANDING VOLTAGE: 150V AC FOR ONE MINUTE.
   1-4. INSULATION RESISTANCE: 100MΩ MIN. MEASURED BY 500 VDC
2. MECHANICAL CHARACTERISTICS:
   2-1. INSERTION FORCE : 3.0 KGF Max.
   2-2. WITHDRAWAL FORCE : 0.35 KGF Min.
3. LIFE TEST: 5,000 CYCLES MIN.
4. OTHER GENERAL SPEC. TO REFER "2DC1003 SERIES SPEC".
5. TO CONFORM TO SINGATRON HAZARDOUS SUBSTANCE FREE SPEC.
6. HALOGEN FREE PRODUCT IDENTIFICATION MARK ON PRODUCT:
7. HALOGEN FREE PRODUCT INDENTIFICATION LOGO ON THE PACKAGING:
8. FOR REFLOW SOLDERING LEAD-FREE PROCESS.
9. THE PANEL'S ID MUST BE GREATER THAN THE PLUG'S OD WHICH MUST HAVE A DIFFERENCE OF LESS THAN OR EQUAL TO 0.5 mm.(AS SHOWN IN FIGURE 1.)





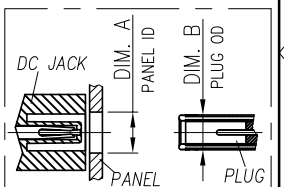




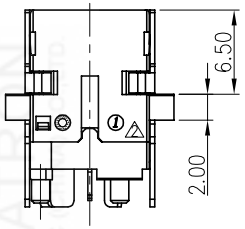


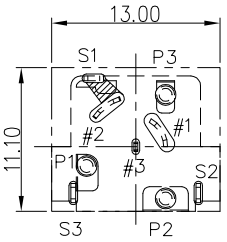
PLUG FULL MATING STATUS

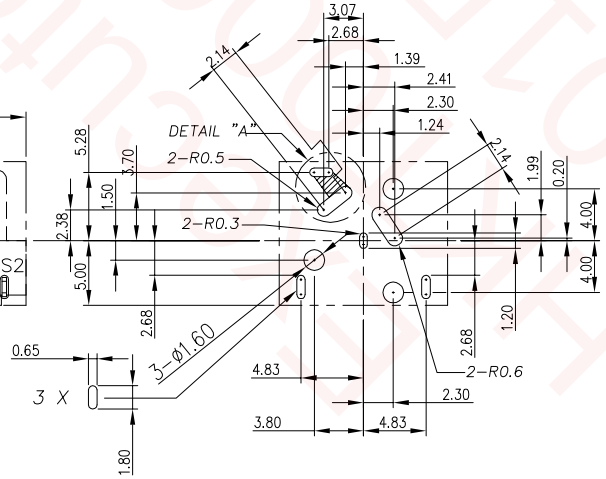
SCHEMATIC
#1 SPRING(+)
#2 SPRING(-)
#3 SIGNAL



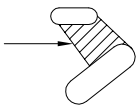
DIM. A-DIM.B ≤ 0.5
FIGURE 1







The area can weld(comprehend Spring(-)&Shell)



DETAIL "A"

Recommended PCB Layout
<TOP VIEW>TOLERANCE: ±0.05
(PCB THICKNESS: 1.5mm)

NO	DESCRIPTION	QTY	MATERIAL	PLATING & COLOR
G	INSULATION FILM	1	MYLAR 0.075t	TRANSPARENT
F	SIGNAL TERMINAL	1	COPPER ALLOY 0.3t	GOLD FLASH ON CONTACK AREA Matte Sn 120u" ON SOLDER TAIL. ALL OVER Ni 50u" Min.
E	SHELL	1	BRASS 0.35t	可焊鎳 Ni 60u" Min.
D	SPRING (+)	1	COPPER ALLOY 0.3t	Gold Flash ON CONTACT AREA Gold Flash ON SOLDER TAIL; ALL OVER Ni 50u"
C	SPRING (-)	1	COPPER ALLOY 0.3t	
B	COVER	1	HIGH TEMP. THERMOPLASTIC UL 94V-0	BLACK
A	HOUSING	1	HIGH TEMP. THERMOPLASTIC UL 94V-0	BLACK

UNLESS OTHERWISE SPECIFED TOLERANCES

DECIMALS: X :±0.5 X.X :±0.3 X.XX :±0.2
ANGLES: X :±2° X.X :±1°

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

TITLE	DC POWER JACK			
DWN	Ron	PART NO.2DC1003-001113F		
CHKD	Sky	SCALE --	UNIT: mm	
APVD	Lussen	SIZE: A3	SHEET: 1 OF 1	REV:A

CUSTOMER COPY

文件編號: RD-06-043-A