



Recommend PCB Layout
TOP View Tolerance:±0.05mm

- MiniDIN:
1. Voltage and Current Rating: DC 12V & 1.0A
2. Contact resistance
2.1 Initial, before life cycle test:
2.1.1 Pin to Contact: 30mΩ (max)
2.1.2 Plug Shield to Contactor: 50mΩ (max)
2.2 After life cycle test:
2.1.1 Pin to Contact: 60mΩ (max)
2.1.2 Plug Shield to Contactor: 100mΩ (max)
3. Insulation resistance(between any adjacent open contacts: 50MΩ @ DC250V (min))
4. Dielectric Strength: A potential of 250V AC RMS, 50/60Hz shall be applied, between any open contacts for one minute without broken
5. Insertion force: 4.3kgf max.
6. Withdraw force: 0.3kgf min.
7. Single Contact Maintenance Force: 20gf min.
8. Life Cycle Test: Shall be subject to 1500 cycles at 10~20 cycles per minute with no electrical load.

- PECIFICATION
1. CONTACT RESISTANCE: 30m Ω MAX
2. DIELECTRIC STRENGTH: 500V FOR 1 MINUTE..
3. INSULATION RESISTANCE: 100M MIN. AT 500V DC.
4. INSERTION FORCE: 3kgf MAX.
5. WITHDRAWAL FORCE: 0.3kgf MIN.
6. WITHDRAWAL FORCE FOR CENTER CONTACT TERMINAL:0.08kgf MIN.(USE GAUGE PLUG)
7. TERMINAL STRENGTH: THE TERMINAL SHALL BE CAPABLE OF WITHSTANDING A FORCE OF 3KG APPLIED IN ANY DIRECTION FOR 0.5 SECONDS WITHOUT LOSSING AND BREAKDOWN
8. LIFE TEST:
THE LIFE TEST TO BE MADE BY 5000 CYCLES OF INSERTION AND EXTRACTION WITH THE MATCHING PLUG AT A RATE OF 20 TO 30 CYCLES PAR MINUTE UNDER NO LOAD.
9. SHELL OF RCA CONTACT TO SEAL PLATE.
10. SOLDER HEAT RESISTANCE: WAVE SOLDERING 260°C 10 SECS.
11. SEE "2MU-4019 SERIES" SPECIFICATION
12. GREEN PRODUCT IDENTIFICATION LABEL IN PACKING: [G.P. PASS]
13. FOR WAVE SOLDERING LEAD-FREE PROCESS.
14. GAUGE PLUG:

PART NO.
2MU-4019-0X3
SEE "TABLE 1"



15. SHIELDING RETENTION FORCE : 3.0 MIN.

J	SHIELDING	1	Brass 0.3t	CuSn Plating
I	EARTH TERMINAL #9	1	Brass, T=0.3	CuSn Plating
H	TERMINAL #2	1	Phosphor Bronze 0.25t	CuSn Plating
G	TERMINAL #1	1	Brass, T=0.5	CuSn Plating
F	TERMINAL #8	1	Phosphor Bronze 0.25t	CuSn Plating
E	TERMINAL #3,4,5,6,	4	Phosphor Bronze 0.4t	CuSn Plating
D	GROUND CONTACT #7	1	Phosphor Bronze 0.3t	CuSn Plating
C	SLEEVE	1	Brass 0.4t	CuSn PLATING
B	WASHER	1	PBT UL94V-0	SEE "TABLE 1"
A	HOUSING	1	PBT UL94V-0	BLACK COLOR
NO	DESCRIPTION	QTY	MATERIAL	PLATING & COLOR

UNLESS OTHERWISE SPECIFIED TOLERANCES

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

TITLE	PIN JACK+MINI DIN CONNECTOR
DMW	DATE 2008.11.24 PART NO. 2MU-4019-0X3
CHKD	APVD JAMSON 2008.11.24 SCALE:2/1 UNIT: mm
APVD	JAMSON 2008.11.24 SIZE: A3 SHEET: 1 OF 1 REV: I

TABLE 1"

PART NO.	WASHER
2MU-4019-003	GREEN
2MU-4019-013	YELLOW
2MU-4019-023	RED

