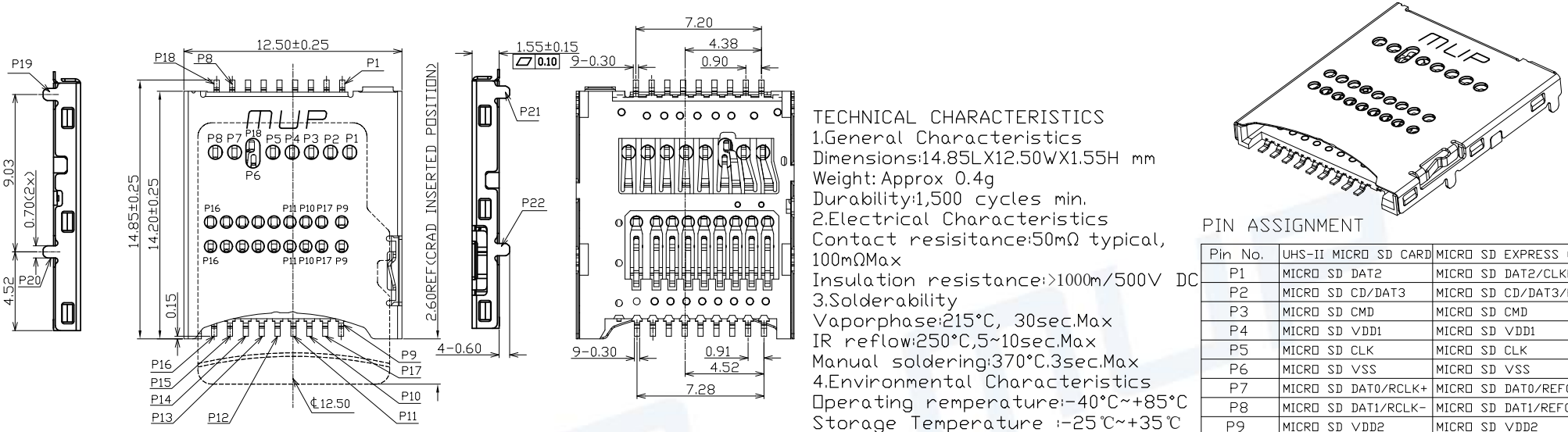
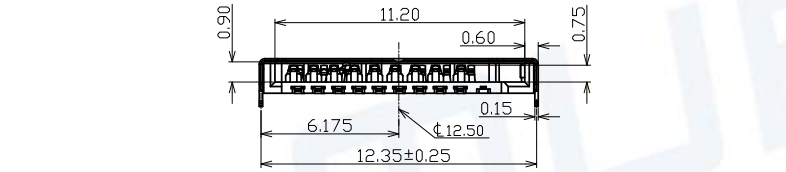
REV.	DESCRIPTION OF REVISIONS	APPR.	CHKD.	DRAW.	DATE
1	NEW REVISION			Henry	2023/10/11
2					

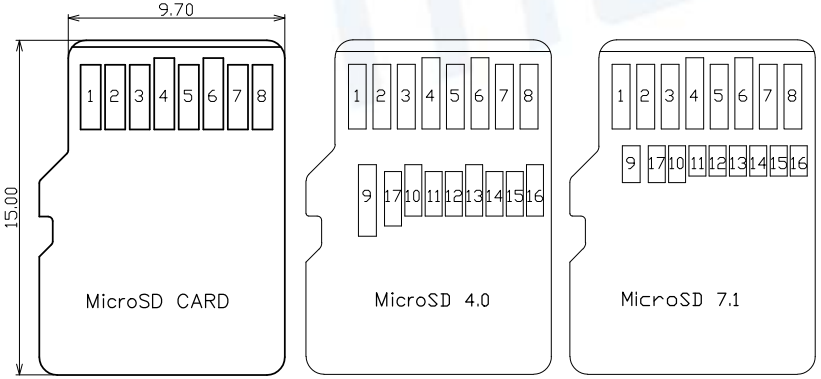


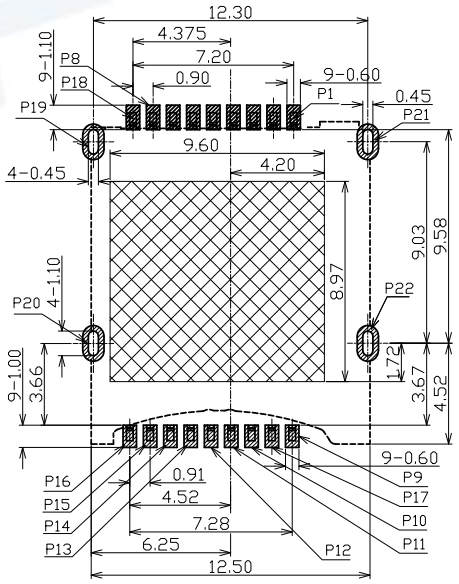
TECHNICAL CHARACTERISTICS
1.General Characteristics
Dimensions:14.85LX12.50WX1.55H mm
Weight: Approx 0.4g
Durability:1,500 cycles min.
2.Electrical Characteristics
Contact resisitance:50mΩ typical, 100mΩMax
Insulation resistance:>1000m/500V DC
3.Solderability
Vaporphase:215°C, 30sec.Max
IR reflow:250°C,5~10sec.Max
Manual soldering:370°C.3sec.Max
4.Environmental Characteristics
Operating remperature:-40°C~+85°C
Storage Temperature :-25℃~+35℃
Operating humidity:10%~+95%RH

PIN ASSIGNMENT

Pin No.	UHS-II MICRO SD CARD	MICRO SD EXPRESS CARD
P1	MICRO SD DAT2	MICRO SD DAT2/CLKREQ#
P2	MICRO SD CD/DAT3	MICRO SD CD/DAT3/PERST#
P3	MICRO SD CMD	MICRO SD CMD
P4	MICRO SD VDD1	MICRO SD VDD1
P5	MICRO SD CLK	MICRO SD CLK
P6	MICRO SD VSS	MICRO SD VSS
P7	MICRO SD DAT0/RCLK+	MICRO SD DAT0/REFCLK+
P8	MICRO SD DAT1/RCLK-	MICRO SD DAT1/REFCLK-
P9	MICRO SD VDD2	MICRO SD VDD2
P10	MICRO SD VSS	MICRO SD VSS
P11	MICRO SD D0+	MICRO SD PCIE TX+
P12	MICRO SD D0-	MICRO SD PCIE TX-
P13	MICRO SD VSS	MICRO SD VSS
P14	MICRO SD D1-	MICRO SD PCIE RX-
P15	MICRO SD D1+	MICRO SD PCIE RX+
P16	MICRO SD VSS	MICRO SD VSS
P17	MICRO SD Single Protocol Interface	MICRO SD VDD3
P18	MICRO SD CD	MICRO SD CD
P19	GND	GND
P20	GND	GND
P21	GND	GND
P22	GND	GND

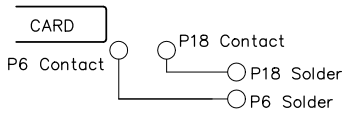




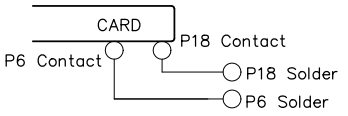


ITEM	PART NAME	Q'TY	MATERIAL	FINISH
1	HOUSING	1	Hi-temp Thermoplastic	Black UL94V-0
2	DATA CONTACT	17	Copper Alloy	Contact area:Gold plated
3	SWITCH	1	Copper Alloy	Contact area:Gold plated
4	SHELL	1	Stainless Steel	Solder area:Gold plated

CIRCUIT DIAGRAM FOR DETECT SWITCHES



NORMAL Open SWITCH
(BEFORE CARD INSERT)



CLOSE SWITCH
(ARFTER CARD INSERT)

RECOMMENDED P.C.B LAYOUT
COMPONENT SIDE(TOLERANCE ±0.05)
PAD AREA
CONNECTOR OUTLINE
NO PATTERN AND VIA HOLE IN THIS AREA

RoHS PROCESS COMPLIANT

Unless otherwise specified, other tolerance are:

X	±0.35	X°	±5°
X.X	±0.25	X.X°	±4°
X.XX	±0.15	X.XX°	±3°
X.XXX	±0.10	X.XXX°	±2°

PROJ. | UNIT mm | SCALE 1:1

CUSTOMER DRAWING

MUP MUP INDUSTRIAL CO.,LTD.

NAME: Micro SD CARD 7.1 CONNECTOR
MODEL NO: MUP-M6109-01
TYPE : Push-Pull Type with switch pin

DRAWN	Henry 2023/10/11	DWG NO.: DWG-M6109-01-01
CHECKED	Henry 2023/10/11	
APPROVAL	Simon 2023/10/11	SHEET 1/1 / REVISION 1