

A

B

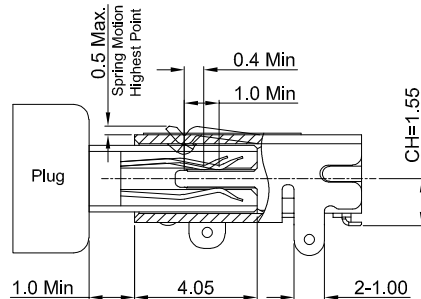
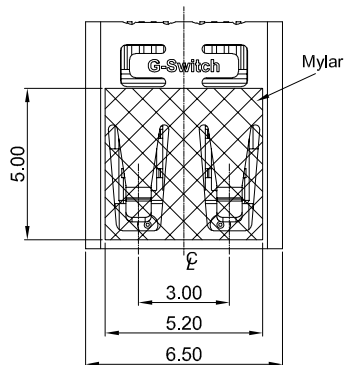
C

D

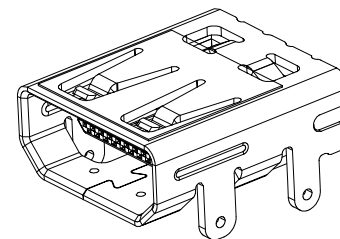
E

1

1



PIN	D Type Signal Assignment	PIN	D Type Signal Assignment
1	Hot Plug Detect	11	TMDS Data0-
2	Utility	12	TMDS Clock+
3	TMDS Data2+	13	TMDS Clock Shield
4	TMDS Data2 Shield	14	TMDS Clock-
5	TMDS Data2-	15	CEC
6	TMDS Data1+	16	DDC/CEC Ground
7	TMDS Data1 Shield	17	SCL
8	TMDS Data1-	18	SDA
9	TMDS Data0+	19	+5V Power
10	TMDS Data0 Shield		



2

2

GT-HD004A-P N N GX

DETAIL
A=DIP+SMT

Shell Material
P=Phosphor copper

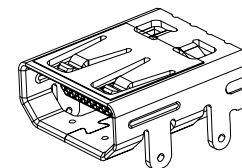
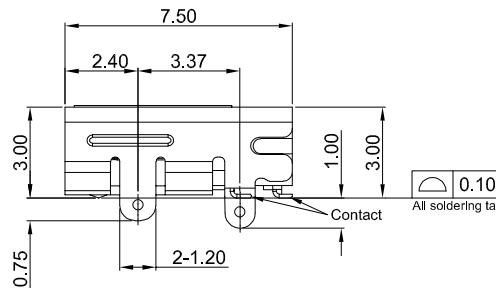
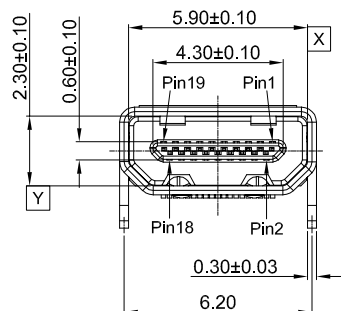
Shell Plating
N=Ni
G=Gold

Housing Colour
N=Ni
G=Gold

Terminal Plating
G0=G/F
G1=1u
G3=3u
G15=15u
G30=30u

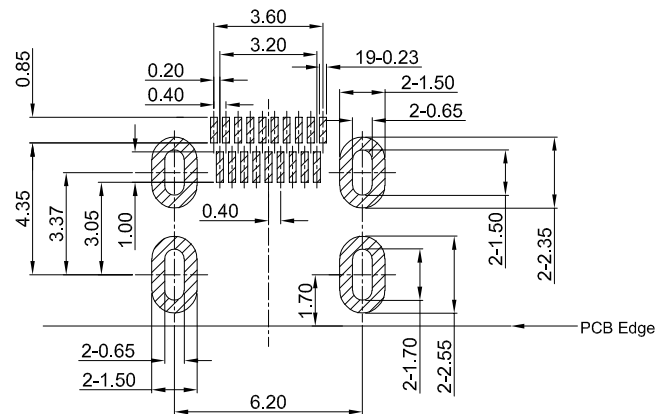
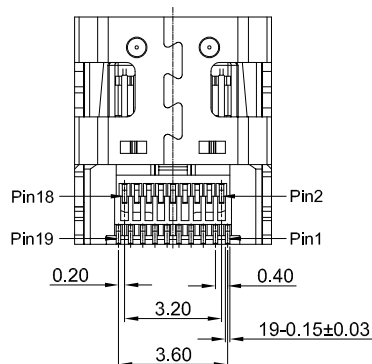
G-Switch HDMI Specification:

- 1.Current rated: 0.3A 5V AC/DC
- 2.Withstanding voltage: 250V AC/minute unmated
- 3.Contact resistance: 30mΩ Max
- 4.Insulation resistance: 100MΩ Min
- 5.Operating temperature: -40°C ~ +85°C
- 6.Mating force: 44.1N
- 7.Unmating force: 5N~25N,After durability: 3N~25N
- 8.Durability cycle: 5000 cycles



3

3



RECOMMENDED PCB LAYOUT
TOLERANCE:±0.05

5

5

NO.	PARTS	MATERIAL	REMARKS
1	SHELL	PHOSPHOR COPPER	Ni PLATED
2	HOUSING	HIGH TEMPERATURE PLASTIC	LCP+30%G/F BLACK UL 94 V-0
3	TERMINALS	C7025	Au PLATING ON CONTACT AREA



RoHS
Compliant
EU RoHS Standards



SCALE: 1:1 UNIT: mm
SIZE: A4

Unless otherwise
General Tolerance:
X..x ±0.35
X..xx ±0.25
X..xxx ±0.15
X* ±2°

Title: Horizontal HDMI 19P DF 2.1
SMT CH=1.55 L=7.50mm

Molde Code: GT-HD004A-PNNGX

DRAWN	CHECKED	APPROVED	DATE
Jiang	Xia	Chen	2023.02.01

品赞科技®
b-Switch
www.dg-switch.com

REV: A0 SHEET: 1/1

A

B

C

D

E