

REV.	ECN. NO.	APPD.
A	BC-17-0007323	LIANG GONG
B	BC-17-0014175	LIANG GONG
C	BC-18-0012292	Davy Bu
D	BC-20-0028576	Yen.Lin Chiang

PRODUCT NO.: 3V D 5 1 20 3-3S65-4 H

DISPLAY PORT SERIES
PRODUCT SERIES: D STANDARD TYPE
TERMINATION TYPE: S/R A SMT
CONNECTOR TYPE: 1 RECEPTACLE
NO. OF CONTACT POS.: 20: 20 POS

HALOGEN-FREE CODE
PACKAGE CODE: 4: SOFT TRAY
EXTENSION CODE
CONTACT GOLD PLATING: 3: 30u" MIN GOLD

SPECIFICATIONS:

- ELECTRICAL CHARACTERISTICS:
 - CONTACT CURRENT RATING: 0.5A MIN.
APPLIED VOLTAGE RATING: 40V AC
 - CONTACT RESISTANCE:
CONTACT RESISTANCE: 30 MILLIOHMS MAXIMUM.
AFTER TEST: CHANGE FROM INITIAL VALUE 30MILLIOHMS MAX.
 - SHELL RESISTANCE:
AFTER TEST: CHANGE FROM INITIAL VALUE 50MILLIOHMS MAX.
 - DIELECTRIC WITHSTANDING VOLTAGE: 500V AC RMS.
 - INSULATION RESISTANCE:
UNMATED PLUG: 100 MEGAOHMS MIN. AT 500V DC.
MATED PLUG: 10 MEGAOHMS MIN. AT 150V DC.
- MECHANICAL CHARACTERISTICS:
 - CONNECTOR MATING FORCE: 4.5Kgf MAX.
 - CONNECTOR UNMATING FORCE: 1.0~4.0 Kgf.
 - DURABILITY: 10000 CYCLES.
 - OPERATING TEMPERATURE RANGE: -40~85°C; HUMIDITY: 85% RH MAX.
 - FEMALE SCREW LOCK TORQUE: 0.3N*m(3Kgf*cm) MAXIMUM.
- RECOMMENDED PROCESS:
 - IR REFLOW, PEAK TEMPERATURE: 250°C, 10SEC MAX.
 - COPLANARITY OF SMT TERMINAL IS 0.08mm MAX.
 - RoHS AND HALOGEN-FREE COMPLIANT.

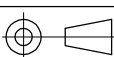
RECOMMENDED P.C.B. LAYOUT (COMPONENT SIDE VIEW)

PCB THICKNESS: 1.60±0.05mm
DEFAULT TOLERANCE: ±0.05

④	MYLAR	1	KAPTON	/
③	CONTACT	20	COPPER ALLOY	NIKEL UNDERPLATING OVERALL, 30u" MIN. AU PLATING AT CONTACT AREA, 50u" MIN Sn PLATING AT SOLDER AREA.
②	HOUSING	1	HIGH TEMPERATURE THERMOPLASTIC UL94V-0	COLOR: BLACK
①	SHELL	1	STAINLESS STEEL	NIKEL UNDERPLATING OVERALL, 50u" MIN Sn PLATING AT SOLDER AREA.
ITEM	DESCRIPTION	Q'TY	MATERIAL	REMARK

PIN NUMBER	SOURCE-SIDE PIN ASSIGNMENT	SINK-SIDE PIN ASSIGNMENT
1	ML_Lane 0(p)	ML_Lane 3(n)
2	GND	GND
3	ML_Lane 0(n)	ML_Lane 3(p)
4	ML_Lane 1(p)	ML_Lane 2(n)
5	GND	GND
6	ML_Lane 1(n)	ML_Lane 2(p)
7	ML_Lane 2(p)	ML_Lane 1(n)
8	GND	GND
9	ML_Lane 2(n)	ML_Lane 1(p)
10	ML_Lane 3(p)	ML_Lane 0(n)
11	GND	GND
12	ML_Lane 3(n)	ML_Lane 0(p)
13	CONFIG1	CONFIG1
14	CONFIG2	CONFIG2
15	AUX CH (p)	AUX CH (p)
16	GND	GND
17	AUX CH (n)	AUX CH (n)
18	HOT PLUG DETECT	HOT PLUG DETECT
19	RETURN	RETURN
20	DP PWR	DP PWR

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UNITS	NAME(INTENDED USE)	 FOXCONN INTERCONNECT TECHNOLOGY LIMITED.
mm[INCH]	DISPLAYPORT CONNECTOR SMT TYPE	
MAT'L	PART NO.(INTENDED USE)	CLASS: ☐ CONFIDENTIAL ☐ SECRET ☒ GENERAL
FINISH	3VD51203-3S65-4H	TITLE: CUSTOMER DRAWING
Q'TY	APPD:Yen.Lin Chiang 10/19'20	DWG NO.: 301-0000-3146
	CHKD: Henry Shu 10/19'20	
	DRAW: N.J Ding 10/19'20	
		SCALE: N/A
		SHEET: 1/1
		REV: D