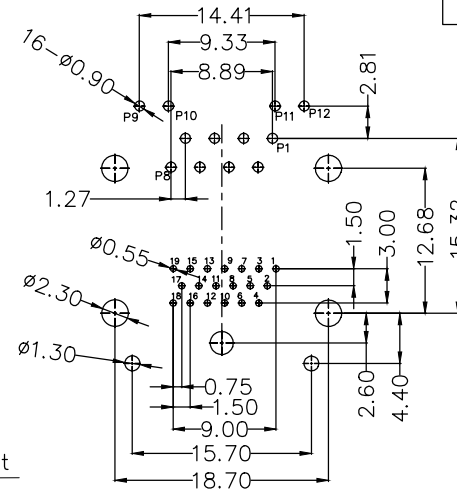


Date Code

TXGA
YYWW

Recommended P.C.Board Layout
General tolerances:±0.05

SPECIFICATION

Electrical Performance

Current Rating:1.5A AC(rms)/DC

Voltage Rating:125V AC(rms)/DC

Contact Resistance:30mΩ Max

Insulation Resistance:500MΩ MIN

Withstanding Voltage:1000V AC r.m.s

Temperature Range-Operating: -40°C~+85°C

Material and Plating

Housing:PBT, (UL 94V-0)(RJ45)

PBT, (UL 94V-0)(HDMI2.0)

Terminal:Phosphor Bronze/Selective gold plated on contact area and matte tin plated on tails area.(RJ45/HDMI)

Shield: Copper alloy/Nickel plating



Ordering Information

FRJ45 259 — 1 7 XX BK K X 1 0 0
1 2 3 4 5 6 7 8 9

1	Category FRJ45-RJ45 Connector	2	Distinction No. 259	3	Ports options 1-1 Ports	4	Plating 7-Selective gold plated on contact area and matte tin plated on tails area	5	thickness of Gold Plating 00-Gold flash
6	Color-Resin BK-Black	7	Packaging K-Tray	8	LED style 1-L: Yellow R: Green 2-L: Green R: Yellow	9	Contact type 1-Square pin		

 THIRD ANGLE PROJECTION		GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY LEO	DATE 24/JUN/23	PART NO. FRJ45259-17XXBKKX100	ITEM NO. FRJ45259	 Building Technology Cornerstone	
		X. ±0.30	X.' ±5'	CHECKED BY	DATE	TITLE RJ45+HDMI2.0 Connector 8P8C Angle(90°)			
DESIGN UNITS mm		X.X ±0.20	X.X' ±2'	GISELLE	24/JUN/23			REV 0	
SCALE 5:1	SIZE A4	X.XX ±0.15	X.XX' ±1'	DRAWN BY HJP	DATE 24/JUN/23	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL ELECTRONICS(S.Z)CO.,LTD AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
		X.XXX ±0.10	X.XXX' ±0.5'						

A

B

C

D

E

F

A

B

C

D

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F

12345678

REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD

RJ pin assignment

PIN	Name	Description
1	TX+	Tranceive Data+
2	TX-	Tranceive Data+
3	RX+	Receive Data+
4	N/C	Not connected
5	N/C	Not connected
6	RX-	Receive Data-
7	N/C	Not connected
8	N/C	Not connected

HDMI Pinout Definition

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

 THIRD ANGLE PROJECTION		GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY LEO	DATE 24/JUN/23	PART NO. FRJ45259-17XXBKKX100	ITEM NO. FRJ45259	 Building Technology Cornerstone	
		X. ±0.30	X.* ±5°	CHECKED BY	DATE	TITLE RJ45+HDMI2.0 Connector 8P8C Angle(90°)			
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		X.XX ±0.15	X.XX* ±1°						
SCALE 5:1	SIZE A4	X.XXX ±0.10	X.XXX* ±0.5°	DRAWN BY HJP	DATE 24/JUN/23	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL ELECTRONICS(S.Z)CO.,LTD AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

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