

# ONLINE MONITORS SPECIFICATIONS

## General Specification:

Sl.no	Specification Description	Specification Value
1	Type	50 pin SD
2	Box/Housing Material	Nylon or Polycarbonate or suitable for Electronic Grade
3	Box/Housing Thickness	>= 2mm
4	Box/Housing surface Finish	Finish Smooth
5	Box/Housing Colour	Grey or Silver
6	Box/Housing Name-Plate	Glossy finish for using White Board Marker to write
7	Box/Housing Name-Plate Dimensions	50mm x 15mm (can be mounted on one of the longer side wall of OLM)
8	Test/Monitoring Points Inside Dimension	2mm, (Standard 2mm Patch cords or Multi-meter probe compatible), 6mm depth hole for patch cord probing
9	Test Points Numbering on the Box	Shall be screen printed. Each number shall be closer to respective test point. Readable font size and black in colour.
10	Test Point Socket assembly isolation to Box	Mounting on PCB and solder pin contacts. Isolation shall be using Nylon material of min. 1mm radial thickness
11	Test Points 2mm Socket to Socket separation (pitch to pitch)	<=12mm
12	Wires Type and Gauge	PTFE and 26 AWG for 78 pin OLM, 24 AWG for rest OLM.
13	Wire insulation rating	600V
14	Pigtail Length	<=500mm for both connectors from the Box Edge or Pigtail Exit point
15	Wiring inside the Box/Housing	PCB based Compact OLMs.
16	Minimum Track width on PCB inside the Box/Housing	1.2 mm
17	Minimum Track-to-Track Separation/Isolation on PCB	1.5 mm
18	PCB thickness	2mm +/- 0.15mm
19	PCB Material	FR4(Glass Reinforced Epoxy laminate material)
20	Coating on PCB	Conformal coating of 50 micron typical
21	Pigtail	Two sides as per requirement.
22	Pigtail Connectors	DSUB Connectors (Steel Shell with Nickel finish and gold finish crimp contacts) compliant to MIL-STD-24308
23	Connector Plug	1 No.
24	Connector Socket	1 No.
25	Connection Scheme	1:1 wire Connection from Test points on PCB end points to Plug connector and then Socket Connector.
26	Sleeve for crimp joint Contacts at plug connector.	1.6mm kynar
27	No. of pins per connector	As mentioned in the OLMs Title.
28	Minimum Box/Housing Dimensions (Length, Width, Height)	(75.5 mm, 44.5 mm, 21 mm)

**Reference diagram:**

