

HDVDP & HDVDPM



Emerson Network Power Connectivity Solutions offers Trompeter's HDVDP and HDVDPM Patch Jacks designed and engineered to exceed SMPTE 292M specifications for high definition video transmission and connectivity.

The normal-thru contact interface design of HDVDP/HDVDPM consists of a self-aligning normal-thru U-slot, two redundant points of contact, an independent applied normal force at each contact point, and a mechanical wipe region at each contact interface location. These design attributes provide reliable and repeatable patching/un-patching, resulting in low-level contact resistance stability. Samples and information can be obtained by contacting Trompeter's customer service department at: **800.247.8256**, or through the website at **www.EmersonConnectivity.com**

Key Features & Benefits

- Lightweight design:
 - HDVDPT (full size): 47.8 grams
 - HDVDPM (mini) 34.2 grams
- High-reliability normal-thru contact design
- Self wiping normal thru contact
- Streamlined design for repeatable manufacturability

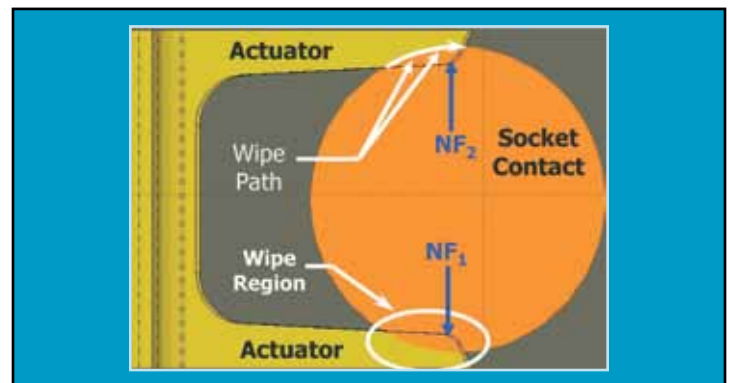
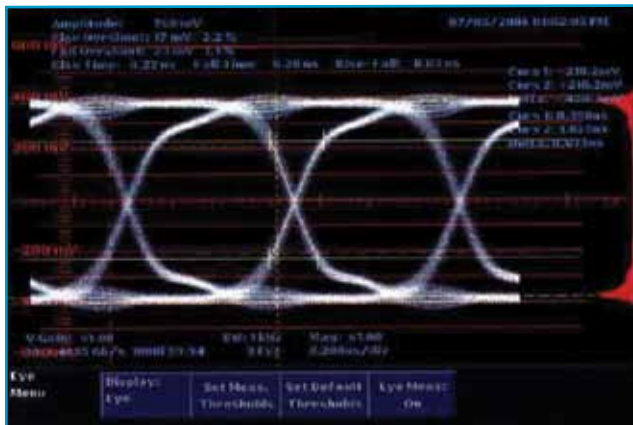
SMPT E Requirements

| Parameter | HD (SMPT E 292) | SD (SMPT E 259) | Comments |
|-------------------|-------------------------------------|-------------------------------------|---|
| Connection Medium | Coaxial Cable | Coaxial Cable | 75 ohm, low loss, double shielded |
| Connector Type | BNC | BNC | 75 ohm version |
| Cable Length | 80 meters | 300 meters | Depending on cable type |
| Bit Rate | 1.485 Gbps | 270 Mbps | 145.5 MHz word clock x 10 27 MHz work clock x 10 |
| Return Loss | -15dB or better @ 5MHz to 1.485 GHz | -15dB or better @ 5MHz to 1.485 GHz | Nominal into 75 ohm termination |
| Voltage Levels | 800 mV P-P +/- 10% | 800 mV P-P +/- 10% | Nominal into 75 ohm termination |
| Jitter | <0.2 UI or <134.68 pS | <0.2 UI or <134.68 pS | HD UI = 673.4 pS SD UI = 3.7 nS |
| DC Offset | 0.0 V +/- 0.5 V | 0.0 V +/- 0.5 V | Nominal at mid-amplitude |
| Rise/Fall Times | <270 pS, <100pS diff. | <270 pS, <100pS diff. | 20% - 80% |

HDVDP/HDVDP M Performance vs. SMPT E 292 Requirements

| Parameter | SMPT E 292 M | HDVDP M (mini) | HDVDP T (full size) |
|---------------------|---------------------------------------|--|--|
| Return Loss (S1, 1) | -15 dB or better @ 5 MHz to 1.485 GHz | S1, 1 <-26 dB | S1, 1 <-26 dB |
| Voltage Levels | 800 mV P-P +/- 10% | 760 mV | 760 mV |
| Jitter | <0.2 UI or <134.68 pS @ 1.485 Gbps | .082 UI or 55 pS | .082 UI or 55 pS |
| Rise/Fall Times | <270 pS, ΔRFT <100 pS @ 1.485 Gbps | RT = 220 pS FT = 200 pS ΔRFT = 30 pS | RT = 220 pS FT = 200 pS ΔRFT = 30 pS |

Typical Time-Domain Eye Pattern
Full Size and Mini Patch-Jacks
(jitter and Rise time measures shown in table)



| Part Number | Description |
|-------------|---------------------------------------|
| HDVDP T | Full-size WEGo format, terminated |
| HDVDP | Full-size WEGo format, non terminated |
| HDVDP M T | mini WEGo format, terminated |
| HDVDP M | mini WEGo format, non-terminated |
| HDVDP N | Fill-size WEGo format, non terminated |
| HDVDP M N | mini WEGo format, non-terminated |

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