Product Name: ZX200SCPC-21 HDMI type C (mini) receptacle 1.4a 2.0 2.1 TPA-R TDR electrical breakout adapter

Product Description:

HDMI TPA-R TDR electrical test and measurement breakout adapter supporting Type C (mini) HDMI receptacle connector. All 19 connector signals are accessible via SMA connector where each signal is provided with SMD 0402 footprint, enabling external load, ESD diode, scope probe or other application. Available GND test points interfacing to internal GND planes as well as top/bottom GND fills. The HDMI electrical breakout adapter is designed for application requiring HDMI Type C (mini) receptacle connector interface for purpose of test and measurement. **ZX200SCPC-21** HDMI breakout adapter covers 4K 1080p 720p 520p 480p at 50Hz 60Hz 100Hz and 120Hz operating at 2.97GHz (1.4a compliance) bandwidth. ZX200SCPC-21 HDMI electrical breakout adapter is designed for 16GHz bandwidth meeting requirement of extended video format 4K 60Hz 100Hz 120Hz and upcoming HDMI 2.1 specification supporting 8K signal bandwidth.

- Insertion loss: 6GHz : ≤-3dB 8GHz : ≤-4dB
- Multi-layer PCB design
- Designed for 16GHz bandwidth.
- Access to All 19 HDMI signals.
- Onboard SMD 0402 footprint, enabling apply of Load, ESD diode, scope probe or more.
- Access to internal GND planes as well as TOP/Bottom GND fills via GND Test Points
- Supports upcoming HDMI 2.1 specification supporting 8K signal bandwidth

ZX200SCPC-21 is offered supporting HDMI Type C (mini) receptacle connector.

ZX200SCPC-21 is offered with SMA cable assemblies interfacing directly to scope probe or test equipment.

- For proper signal measurements, please connect GND test point to system GND. The GND test points are connected to internal GND planes as well as TOP/Bottom GND fills.
- The HDMI connector's case may be connected to the module's GND planes by installing 0 Ω in R1, R2 locations. As default the connector's case is not connected to the module's GND planes.

Zebax offer ZX202HD (EDID emulator) and ZX200L508-HD (HDMI Termination board) for application requiring EDID emulator or termination load module.

Application: Full HDMI **1.4a 2.0 2.1** electrical test and measurement.

Supported resolutions: Full HDMI 1.4a 2.0 is supported, including:

8K and 4K at 60Hz 100Hz 120Hz operating at 5.94GHz to 10GHz.

Supports upcoming HDMI 2.1 8K resolution 10GHz bandwidth.

HDMI type C (mini) Plug connector. Mates with:

SMA connectors mates with standard SMA connector

ZX200SCPC offers 0402 SMD footprints for all 19 HDMI connector signals. The reserved footprints are designed for signal test and measurements via scope probe, enabling Load, ESD diode, or other component / test signal.

S-Parameter, Insertion loss: See Page 2

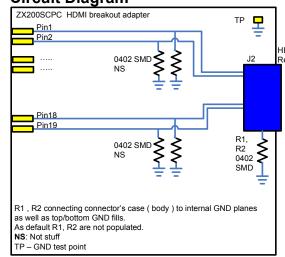
Package includes:

Part number Quantity Description

ZX200SCPC-21 1 HDMI type C (mini) receptacle TPA-R electrical breakout adapter ZX00010308-R 1 Complete set of HDMI 8" (20cm) long coax cable assemblies, SMA Jack. ZX00020308-R 1 or SMA Plug – Please see ordering information. ZX200L508-HD 0 **USB** based HDMI Termination board HDMI EDID emulation module ZX202HD ZX00WT-09NM 0 SMA Wrench Torque 5/16" (8mm)

12.14"(54mm)

Circuit Diagram



Ordering INFO: Part Number ZX200SCPC-X options J : SMA Jack (Standard) P: SMA Plug connector

ALL ZEBAX products are RoHS compliant and Lead Free unless otherwise indicated

ZEBAX TECHNOLOGIES

SANTA CRUZ, CA U.S.A (831) 2 2 2 - 0717 WWW.ZEBAX.COM

SPECIFIED DIMENSIONS ARE INCHES (MM).

1.93"(49mm)

ITEM: ZX200SCPC-21

DESCRIPTION: HDMI type C (mini) receptacle 1.4a 2.0 2.1 TPA-P-TDR electrical breakout adapter 16GHz

CHECKED: M. MARINA

DRAWN: REVISSION: 1.0

ASSEMBLY DRAWING

ALL ZEBAX TECHNOLOGIES DESIGN SPECIFICATIONS, DRAWINGS, PUBLICATIONS, AND OTHER DOCUMENTS (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS." ZEBAX MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY, OR OTHERWISE WITH RESPECT TO THE MATERIALS, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES OF NO INFRINGEMENT. MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE.

nformation furnished is believed to be accurate and reliable. However, Zebax Technologies assumes no responsibility for the consequences of use of such information or for any infringement of patents or other rights of third parties that may result from its use.

SLAVIK

SHEET: $1 \overline{OF} 2$

