

簡介:



圖 1: HDMI 2.1 Type C 母座測試治具

厘科科技的 HDMI2.1-CR01AM 是一個 HDMI C 的母座測試治具。此一治具除了可以用來測試具備 HDMI C Plug 的線材外，也可以用來測試連接一條 HDMI C 的線材到 HDMI Type C 母座的裝置。在測試治具上，擁有 6 對 SMA 的高頻接頭，可以用來與示波器或訊號產生器連接。治具上的特性阻抗，經過特殊設計，可以落於 95~105 Ohms 之間，且 6 對訊號的對內時間差都被設計小於 3ps 以內。

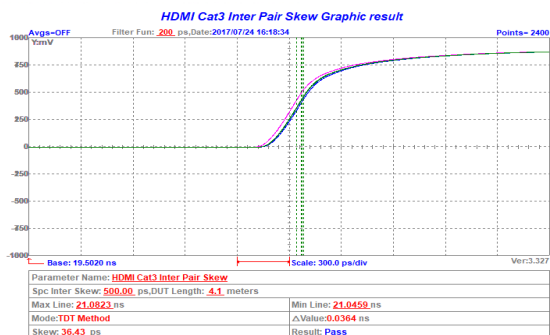


圖 2: HDMI 治具插上一條 HDMI Type C 的線材

應用:

- TV.
- Cable Assembly with C plug.
- HDMI Source devices.

測試報告:



特性:

- RF Connector: SMA X 14
- HDMI Connector: Type C receptacle
- Dimension: 70 X 95 mm²

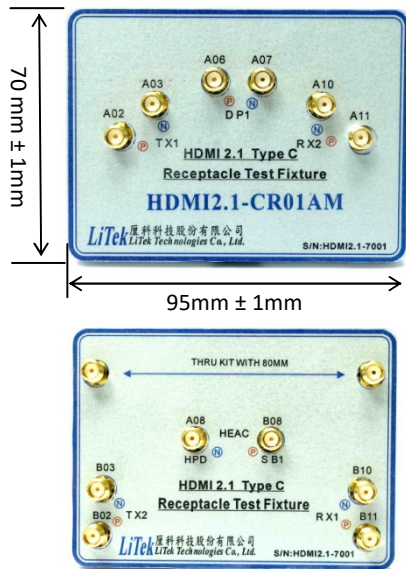


圖 3: HDMI2.1-CR01AM 尺寸圖

特點及性能:

- Trace Impedance: 100 +/- 5 Ω
- Skew: Less than 3ps.
- Loss: Less than 3 dB @12GHz.

表 1: HDMI type C 接頭腳位定義

Pin	Rev Pin	Description	HDMI Function	Pin	Rev Pin	Description	HDMI Function
A1	B1	Common Ground	TMDS D1 Shield	B12	A12	Common Ground	TMDS D2 Shield
A2	B2	Switched with TMDS CLK-	TMDS D1+	B11	A11	Switched with TMDS D0-	TMDS D2+
A3	B3	Switched with TMDS CLK+	TMDS D1-	B10	A10	Switched with TMDS D0+	TMDS D2-
A4	B4	VBUS (USB Type-C)		B9	A9	VBUS (USB Type-C)	
A5	B5	Intergrated on CC signaling	CEC SCL/SDA	B8	A8	Switched with HD/HEAC-	Utility/HEAC+
A6	B6	D+ (USB Type-C)		B7	A7	D- (USB Type-C)	
A7	B7	D- (USB Type-C)		B6	A6	D+ (USB Type-C)	
A8	B8	Switched with Utility/HEAC+	HPD/HEAC-	B5	A5	V conn (+5V Power)	+5V Power
A9	B9	VBUS (USB Type-C)		B4	A4	VBUS (USB Type-C)	
A10	B10	Switched with TMDS D2-	TMDS D0+	B3	A3	Switched with TMDS D1-	TMDS CLK+
A11	B11	Switched with TMDS D2+	TMDS D0-	B2	A2	Switched with TMDS D1+	TMDS CLK-
A12	B12	Common Ground	TMDS D0 Shield	B1	A1	Common Ground	TMDS CLK Shield

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