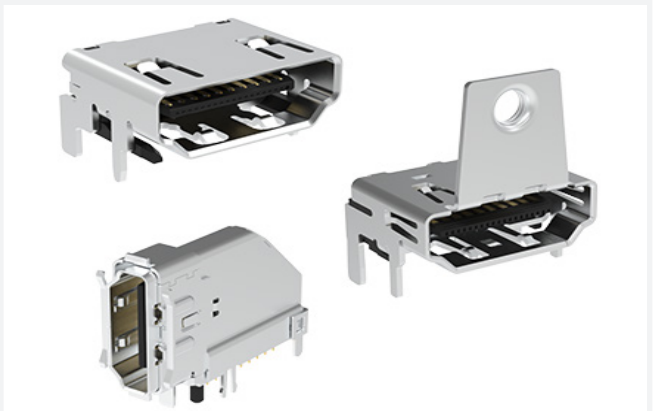
HDMI 2.1 A Connector System – G45AA Series

HIGH PERFORMANCE DIGITAL AUDIO/VIDEO INTERCONNECT SOLUTION

HDMI 2.1 enhancements from Amphenol improve picture and sound quality and usability. HDMI 2.1 also includes reduced tearing enhances clarity with Variable Refresh Rate (VRR) and supports higher frame rates for smoother video, but it also allows variable frame rates.

- Higher video resolutions and faster refresh rates– 8 K60 Hz and 4 K120 Hz , resolution up to 10 K
- Dynamic HDR support ensures every moment of a video is displayed at its ideal values for depth, detail, brightness, contrast and wider color gamuts
- HDMI 2.1 Cable supports the 48 G bandwidth for uncompressed HDMI 2.1 b feature support, low EMI emission and is backwards compatible with earlier versions



TARGET MARKETS



FEATURES	BENEFITS
▪ HDMI 2.1 compliant	▪ Accomodates 48 Gb/s of bandwidth ▪ Backward compatible with earlier HDMI product
▪ Insert molding for better SI and high retention force	▪ Ensures reliable and stable connections
▪ Mounting shielding flange option	▪ EProtects against ESD, RFI and EMI emission
▪ Stainless Steel/Copper shielding material customized	▪ Enhances reliability of connections
▪ RoHS compliant and Halogen–Free	▪ Meets environmental, health, and safety requirements

TECHNICAL INFORMATION

MATERIAL

- Housing: High–temperature thermoplastic, complies with UL 94 V–0, Black colour
- Contact: Copper Alloy, Selective Gold plated on contact area, 100 µ min. Tin plated on soldering tail, 50 µ min. Nickel under–plated overall
- Shell: Stainless Steel or Copper Alloy

MECHANICAL PERFORMANCE

- Durability: Type A:10,000 cycles at 100 ± 50 cycles per hour. Per EIA 364–09
- Insertion Force: 44.1 N {4.5 kgf} Max. Per EIA 364–13
- Withdrawal Force: Type A: 9.8 N {1.0 kgf} Min/39.2 N {4.0 kgf} Max. Per EIA 364–13

ELECTRICAL PERFORMANCE

- Low Level Contact Resistance: Initial 10 Ω max. Per EIA 364–23
- Contact Current Rating: 0.5 A Min. Per EIA–364–70A
- Dielectric Withstanding Voltage: 500 V AC. Per EIA 364–20C

PACKAGING

- Tray / Tape and Reel

ENVIRONMENTAL

- Humidity: 4 cycles between +25 to +85 ˚C, Relative Humidity 80% to 95%. Per EIA 364–31B
- Thermal Shock: 10 cycles between –55 ˚C to +85 ˚C. Per EIA 364–32C

SPECIFICATIONS

- Amphenol Product Specification: PS–7393

TARGET MARKETS/APPLICATIONS



Telecom/Datacom Equipment



Test Card and Card Extenders
High End Computers
Servers



Test and Measurement Equipment



TV / Monitor
Set Top Box
Gaming

Disclaimer
Please note that the above information is subject to change without notice.

PART NUMBERS

Part Description	HDMI ID	Orientation	Tail	Height	Center Height mm	Length	Plating	Flange	Packing	Remark
G45AA1902100B1EU		Right Angle	SMT	6.1	3.32	12.1	G/F	No	Tray	
G45AA1902100GJ2HR		Right Angle	SMT	6.13	3.55	12.2	G/F	No	Tray	
G45AA1902100H1HR		Right Angle	SMT	6.18	3.605	12.2	G/F	No	Tape & Reel	2 layers shell @ both sides
G45AA1902110GZ3HR		Right Angle	SMT	6.15	3.37	11.55	G/F	Yes	Tray	Screw Hole Height = 11.28 mm
G45AA1907008HR		Upright	SMT	16.4	X	26.46	G/F	No	Tray	Tin plated With Mylar
G45AA19071083HR		Upright	SMT	16.4	X	26.46	G/F	No	Tray	Nickel plated With Mylar
G45AA1907108HR		Upright	SMT	16.4	X	26.46	G/F	No	Tray	Nickel plated W/O Mylar
G45AA1912110RH1HR	V	Right Angle	SMT	6.225	3.45	12.2	G/F	Yes	Tray	Screw Hole Height = 8.8 mm
G45AA19171083HR	V	Upright	SMT	16.4	X	26.46	15 µin-Gold	No	Tray	Nickel plated With Mylar
G45AA1922110B1EU	V	Right Angle	SMT	6.1	3.32	12.1 mm	30 µin-Gold	Yes	Tray	Screw Hole Height = 7.34 mm
G45AA1922110GZ3HR		Right Angle	SMT	6.15	3.37	11.55	30 µin-Gold	Yes	Tray	Screw Hole Height = 11.28 mm
G45AA19271083HR		Upright	SMT	16.4	X	26.46	30 µin-Gold	No	Tray	Nickel plated With Mylar
G45AA1922100GY1HR		Right Angle	SMT	6.19	3.615	12.5	30 µin-Gold	No	Tape & Reel	OOC Solution
G45AA1922100GJ3HR		Right Angle	SMT	6.19	3.615	12.15	30 µin-Gold	No	Tape & Reel	Competitive Price

Find part number details using the search box on www.amphenol-cs.com

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