



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





HARTING PushPull Mini DisplayPort



General information

| | | | |
|---|--|--|--|
| Design | PushPull Mini DisplayPort complementary to DisplayPort 1.2 for length ≤ 2m (1.1 for length 3m) | | |
| No. of contacts | 20-pole | | |
| Test voltage | 500V AC peak contact-contact and contact-shielding | | |
| Insulation resistance | 20-pole: 100 MOhm min. (unmated) | 10 MOhm min. (mated) | |
| Current rating | 0.5A @ 55°C | | |
| Nominal voltage rating | 30V DC | | |
| Termination technology | soldering reflow and pin in hole | | |
| Reflow processing temperature | IPC A-610 class 2 | | |
| Locking | PushPull Technology complementary to IEC 61 076-3-106 variant 4 | | |
| degree of protection (IEC 60529) | unmated: IP20 | mated: IP65/67 (PushPull side) | |
| Insertion force / Withdrawal force | 50N max. / 15N min. | | |
| contact resistance change from initial value | 30 mOhm | | |
| Mating cycles | 100 / 100 | (PushPull side / IP20 side) | |
| Shock resistance (no contact disturbance > 1µs) | 25g/11ms, 3 shocks/axis and direction; 5g/30ms, 3 shocks/axis and direction | | |
| Vibration resistance sinus vibration | 10-2000Hz, 15g, 1,5mm, sweep time: 20min | | |
| (no contact disturbance > 1µs) random vibration | 5.35 Gs RMS 15min/axes and DIN EN 61373 class1 cat B 7.9m/s² | | |
| Temperature range | -40°C ... +80°C | | |
| Signaling Speed Rating | low bitrates: 1,62 Gbit/s per lane | high bitrates: 5,4/2,7 GBit/s per lane | |
| Impedance resistance | 100 Ohms +/- 10% | | |
| RoHS - compliant | Yes | | |

Insulator material

| | |
|-------------------|--|
| Material | Engineering Thermoplastic (cable); LCP (Mini DisplayPort, plug, receptacle); Polyamid (Mini DisplayPort adapter) |
| Colour | black |
| UL classification | UL 94 V-0 |

Overmoulding material

| | |
|----------|-------|
| Material | TPE |
| Colour | black |

Contact material

| | |
|------------------------|--------------|
| Contact material | Copper alloy |
| Plating soldering zone | Sn over Ni |
| Plating contact zone | Au over Ni |

Cable specification

| | |
|--------------------|---------------|
| Jacket material | TPE |
| Colour | black |
| Cable diameter | 5mm |
| Conductor material | tinned copper |
| Conductor size | AWG 32 |

| | | | | |
|---|--|---|------------------------------|--|
| | All Dimensions in mm Original Size DIN A3 | Scale 1:1 | Free size tol. | Ref. |
| | | | | Sub. 09450000001 / ECM 500000126819 / 2017-10-23 |
| | All rights reserved Department EC PD - DE | Created by HASELOH | Inspected by LUECKEMEIERM | Standardisation HOFFMANN |
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