

har-flex HD-Card Edge 140 THR PL1 200pcs



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|--|--------------------|---|
| | Part number | 15 04 140 2401 000 |
| | Specification | har-flex HD-Card Edge 140 THR PL1 200pcs |
| | HARTING eCatalogue | https://b2b.harting.com/15041402401000 |

Image is for illustration purposes only. Please refer to product description.

Identification

| Category | Connectors |
|----------------|---------------------------------------|
| Series | har-flex® |
| Identification | HD-Card Edge |
| Element | Connector |
| Features | Termination method of hold downs: THR |

Version

| Termination method | Reflow soldering termination (SMT) |
|--------------------|--|
| Connection type | Motherboard to daughtercard Mezzanine |
| Number of contacts | 140 |
| Pack contents | 200 pieces on reel |

Technical characteristics

| Contact rows | 2 |
|------------------------------------|---|
| Contact spacing (termination side) | 0.8 mm |
| Contact spacing (mating side) | 0.8 mm |
| Data rate | 25 Gbit/s |
| Clearance distance | ≥0.2 mm Backplane ≥0.53 mm Connector ≥0.1 mm Daughtercard |
| Creepage distance | ≥0.2 mm Backplane ≥0.53 mm Connector ≥0.1 mm Daughtercard |
| Limiting temperature | -55 +125 °C |

Page 1 / 3 | Creation date 2023-04-07 | Please note that the data specified here were taken as extracts from the online catalogue. Please refer to the user documentation for the complete and up-to-date information and data. Please also note that the user is responsible for validating functionality, conformity with applicable laws and directives, as well as for the electrical safety in the particular application. HARTING Electronics GmbH | Marienwerderstraße 3 | 32339 Espelkamp | Germany

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Technical characteristics

| Insertion force | ≤100 N |
|---|--|
| Withdrawal force | ≥28 N |
| Performance level | 1 |
| Mating cycles | ≥200 |
| Isolation group | Illa (175 ≤ CTI < 400) |
| Moisture Sensitivity Level (MSL) | 1 acc. to ECA/IPC/JEDEC J-STD-020D |
| Process Sensitivity Level (PSL) | R0 acc. to ECA/IPC/JEDEC J-STD-020D |
| Coplanarity of contacts | ≤0.15 mm |
| | |
| Material properties | |
| Material (insert) | Liquid crystal polymer (LCP) |
| Colour (insert) | Black |
| Material (contacts) | Copper alloy |
| Surface (contacts) | Noble metal over Ni Mating side Sn over Ni Termination side |
| Material flammability class acc. to UL 94 | V-0 |
| RoHS | compliant |
| ELV status | compliant |
| China RoHS | e |
| REACH Annex XVII substances | Not contained |
| REACH ANNEX XIV substances | Not contained |
| REACH SVHC substances | Not contained |
| California Proposition 65 substances | Not contained |
| | |
| Commercial data | |
| Packaging size | 1 |

| Packaging size | 1 |
|--------------------------------|--|
| Net weight | 0.001 kg |
| Country of origin | China |
| European customs tariff number | 85366990 |
| GTIN | 5713140205819 |
| eCl@ss | 27460201 PCB connector (board connector) |

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har-flex HD-Card Edge Family Product Data Rate: 25Gbit/s Protocol Serial Data Rate / Pair Single Interface Double Interface Double Interface Short Channel Short Channel Long Channel Not recommended 400GBASE-KR4 56 Gbit/s Not recommended Not recommended 25 Gbit/s Not recommended 100GBASE-KR4 suitable Not recommended 40GBASE-KR4 10 Gbit/s suitable suitable suitable Not recommended Not recommended Infiniband HDR 50 Gbit/s Not recommended Infiniband HDR 25.8 Gbit/s Not recommended Not recommended Not recommended Infiniband FDR 14 Gbit/s suitable suitable suitable PCle Gen 4 16 Gbit/s suitable suitable suitable PCle Gen 3 8 Gbit/s suitable suitable suitable PCle Gen 2 5 Gbit/s suitable suitable suitable USB 3.1 5 Gbit/s suitable suitable suitable 5 Gbit/s suitable USB 3.0 suitable suitable Hypertransport 3 suitable 5.2 Gbit/s suitable suitable suitable **SATA 3.2** 16 Gbit/s suitable suitable Not recommended Not recommended Not recommended SAS 4.0 22.5 Gbit/s SAS 3.0 12 Gbit/s suitable suitable suitable SAS 2.0 6 Gbit/s suitable suitable suitable

Data Transmission Protocols

The protocol recommendations are based on a set of defined channels. For more information please refer to the reference channel descriptions:

https://www.harting.com/sites/default/files/2022-09/2022-01_eBook%20_Reference%20Channels_en_V1.pdf

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