

STANDARD HIGH SPEED FLEX DATA LINKS

SPECIFICATIONS

For complete specifications see www.samtec.com?HFHM2-DP or www.samtec.com?HFHM2-SE

Terminal:

QTH or QTH-DP Series



Socket:

QSH or QSH-DP Series

Plating:

Au over 50µ" (1,27µm) Ni

Cable:

HFHM2 (2 Layer)
1/2 oz. rolled annealed copper

Base Film: 1 mil Polyimide

Adhesive: FR (DuPont)

Stiffener: FR-4 glass epoxy

Flammability Rating:

UL 94 VO

Operating Temp Range:

-55°C to +105°C

Unmating Force (-RT1 option):

-RT1 option increases unmatting force up to 50%

RoHS Compliant: Yes

-DP Mates with:
QTH-DP, QSH-DP

-SE Mates with:
QTH, QSH

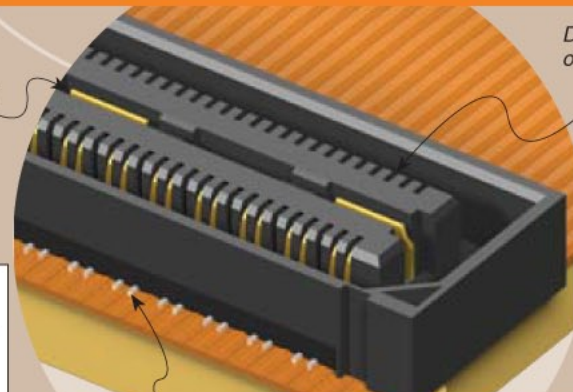


www.samtec.com/solutionator

Design, build and order your own custom data link online: any pin count, any length, any orientation and with your unique signal/ground assignments, all with standard product lead time and pricing.

Metal Ground Plane

Differential Pairs or Single-Ended



(0,50mm) .0197" pitch

| Cable Length | HFHM2 Rated @ 7dB Insertion Loss | |
|--------------|-------------------------------------|-----------------------|
| | -DP | -SE |
| 5" (127mm) | 7.54 GHz / 15.08 Gbps | 5.05 GHz / 10.10 Gbps |
| 10" (254mm) | 5.31 GHz / 10.62 Gbps | 3.01 GHz / 6.02 Gbps |

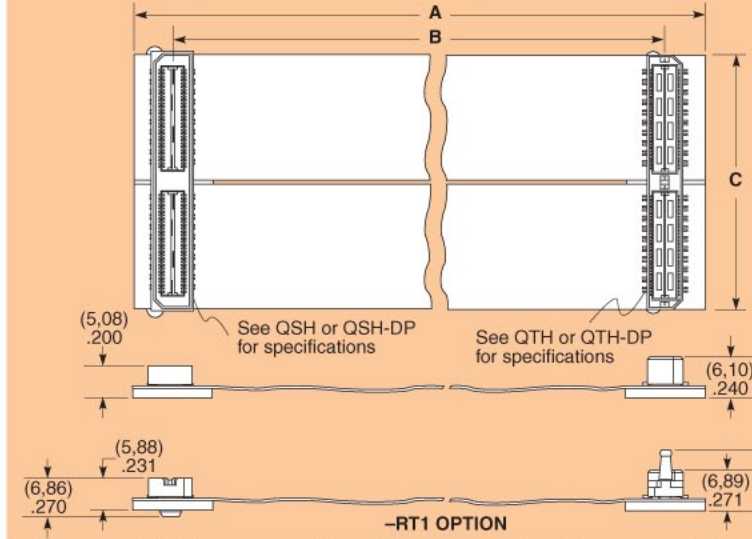
Performance data for other cable lengths and complete test data available at www.samtec.com?HFHM2-DP, www.samtec.com?HFHM2-SE or contact sig@samtec.com

Protocols Supported

- SAS
- SATA
- Fibre Channel
- Ethernet
- PCIe®
- Infiniband

Download test report at www.samtec.com?HFHM2-DP or www.samtec.com?HFHM2-SE

| TYPE | SIGNAL PINS | T | OVERALL LENGTH | SIGNAL ROUTING | OTHER OPTION |
|-------------------------|--|---|--|--|---|
| HFHM2 = 2 layer flex | -020, -040, -060 = Number of Pairs (-DP) -030, -060, -090 = Pins per row (-SE) (Total number of Signals) | | -03.00 = (76,20mm) 3.00" -05.00 = (127,0mm) 5.00" -10.00 = (254,0mm) 10.00" | -DP = Differential Pairs -SE = Single-Ended | Leave blank for no Mounting Holes or Retention Pins -RT1 = Retention Option -MH = Mounting Holes (3,18mm) .125" DIA |



| OVERALL LENGTH | A | B |
|----------------|----------------|---------------|
| -03.00 | (76,20) 3.00 | (64,52) 2.54 |
| -05.00 | (127,00) 5.00 | (115,32) 4.54 |
| -10.00 | (254,00) 10.00 | (242,32) 9.54 |

| SIGNAL PAIRS/PINS PER ROW | C | C (With -RT1) | C (With -MH) |
|---------------------------|---------------|---------------|---------------|
| -020/-030 | (19,50) .768 | (33,98) 1.338 | (27,62) 1.087 |
| -040/-060 | (39,52) 1.556 | (53,99) 2.126 | (47,64) 1.876 |
| -060/-090 | (59,54) 2.344 | (74,00) 2.914 | (67,65) 2.663 |

-SE ROUTING

Product has some lines dedicated to ground. For signal/ground assignments see signal routing information on this page or the assembly print at the web address above.

Note: Some sizes, styles and options are non-standard, non-returnable.

Due to technical progress, all designs, specifications and components are subject to change without notice.

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