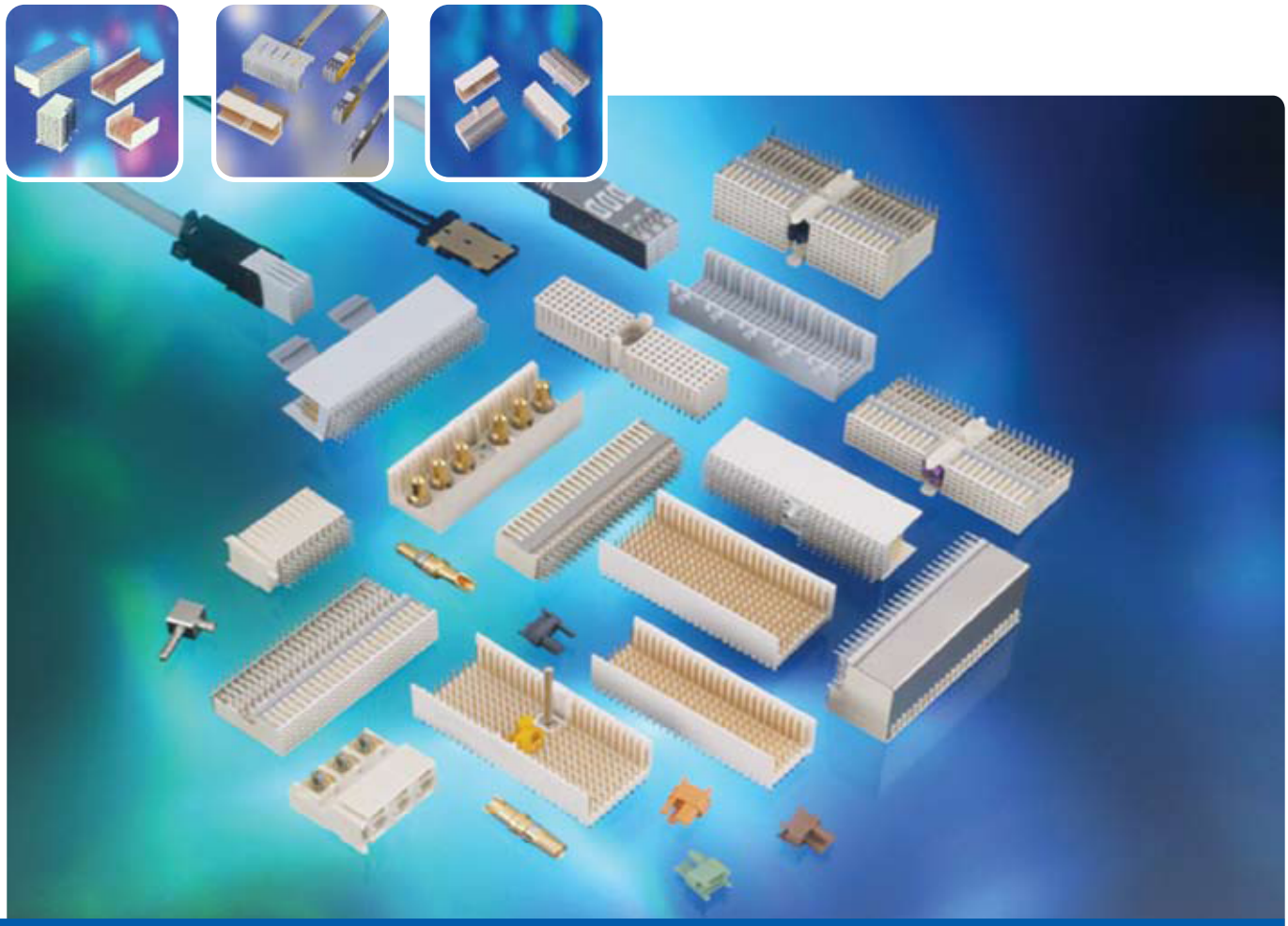
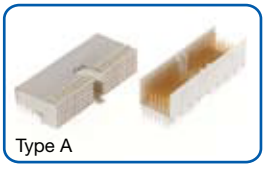
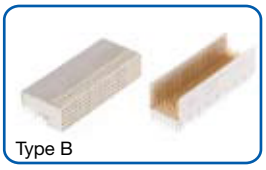


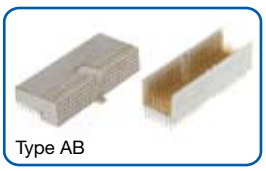
ELECTRONICS

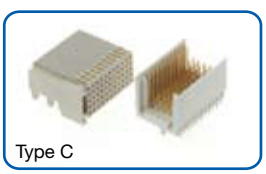
# Millipacs® and *CompactPCI*
## Core Product Selector

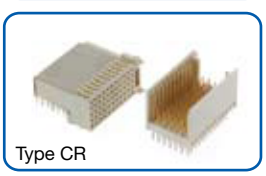
## 5 Row Signal - Standard


Type A


Type B


Type AB


Type C


Type CR

| Millipacs® 5 row signal-standard | | | Header Straight | | Shroud | Receptacle Right Angle | |
|---|---|---|---|---|---|---|---|
| | | | shielded | non-shielded | | top shielded | non-shielded |
| **Type A** | module length 50 mm<br>110 pos<br>service center | press-fit | HM2P07PD5111N9LF | HM2P07PD5110N9LF | HM2H07P1LF | HM2R01PA5108N9LF | HM2R01PA5100N9LF |
| | | rear-plug-up | HM2P07PK5111GFLF | HM2P07PK5110GFLF | | | |
| **Type B** | module length 50 mm<br>125 pos<br>no service center | press-fit | HM2P08PD5111N9LF | HM2P08PD5110N9LF | HM2H08P1LF | HM2R02PA5108N9LF | HM2R02PA5100N9LF |
| | | rear-plug-up | HM2P08PK5111GFLF | HM2P08PK5110GFLF | | | |
| **Type AB** | module length 50 mm<br>110 pos<br>guiding pegs | press-fit | HM2P65PD5111N9LF | HM2P65PD5110N9LF | HM2H65P1LF | HM2R65PA5108N9LF | HM2R65PA5100N9LF |
| | | rear-plug-up | HM2P65PK5111GFLF | HM2P65PK5110GFLF | | | |
| **Type C** | module length 25 mm<br>55 pos<br>service center-left | press-fit | HM2P09PD5111N9LF | HM2P09PD5110N9LF | HM2H09P1LF | HM2R03PA5108N9LF | HM2R03PA5100N9LF |
| | | rear-plug-up | HM2P09PK5111GFLF | HM2P09PK5110GFLF | | | |
| **Type CR** | module length 25 mm<br>55 pos<br>service center-right | press-fit | HM2P80PD5111N9LF | HM2P80PD5110N9LF | HM2H80P1LF | HM2R20PA5108N9LF | HM2R20PA5100N9LF |
| | | rear-plug-up | HM2P80PK5111GFLF | HM2P80PK5110GFLF | | | |

### TECHNICAL DATA

#### PHYSICAL

| | |
|---|---|
| Header | Housing Thermoplastic (UL94 V-0) |
| Receptacle | Housing high temp. Thermoplastic (UL94 V-0) |
| Pin/contact | Phosher Bronze |
| Performance | Telecordia CO and IEC Performance Level 2 |
| Temperature | -55 C to +125 C |

#### MECHANICAL

| | |
|---|---|
| Insertion force | 0.75 N min. per contact pair |
| Withdrawal force | 0.15 N min. per contact pair |
| Mating force | 0.75 N min. per contact pair |
| Mating cycles | 250 |

#### ELECTRICAL

| | |
|---|---|
| Current rating | 1.5 A / 1 A |
| Resistance | (contact) 20 milli ohms max. |
| Resistance | (Insulation) 10,000 M ohm min. |
| Voltage | 750 V rms |

#### MOUNTING STYLE

Press-fit

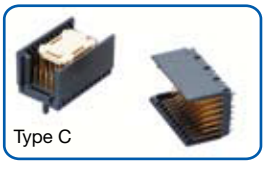
#### PACKAGING

Trays

#### REFERENCE DATA

| | |
|---|---|
| Product specification | GS-12-203 |
| Application specification | GS-20-022 |

## 5 Row - Pin-in-Paste


Type C

| Millipacs® 5 row Pin-in Paste | | Header Straight<br>non-shielded |
|---|---|---|
| **Type C** | module length 25 mm<br>55 positions<br>guiding pegs | HM2P09SZ5111N9LF |

### TECHNICAL DATA

#### PHYSICAL

| | |
|---|---|
| Header | Housing high temp. Thermoplastic (UL94 V-0) |
| Pin/contact | Phosher Bronze |
| Performance | Telecordia CO and IEC Performance Level 2 |
| Temperature | -55 C to +125 C |

#### MECHANICAL

| | |
|---|---|
| Insertion force | 0.75 N min. per contact pair |
| Withdrawal force | 0.15 N min. per contact pair |
| Mating force | 0.75 N min. per contact pair |
| Mating cycles | 250 |

#### ELECTRICAL

| | |
|---|---|
| Current rating | 1.5 A / 1 A |
| Resistance | (contact) 20 milli ohms max. |
| Resistance | (Insulation) 10,000 M ohm min. |
| Voltage | 750 V rms |

#### MOUNTING STYLE

Pin-in-Paste, Short tail 1mm, PIP version

#### PACKAGING

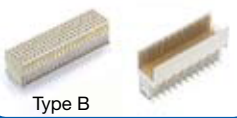
Tape&reel

#### REFERENCE DATA

| | |
|---|---|
| Product specification | GS-12-203 |
| Application specification | GS-20-022 |

## 5 Row Signal - Reversed

Type A


Type B

Type C

| Millipacs® 5 row signal-reversed | | Header Right Angle | | Receptacle Straight | |
|---|---|---|---|---|---|
| | | top shielded | non-shielded | shielded | non-shielded |
| **Type A** | module length 50 mm<br>110 pos<br>service center | HM2J07PE5118N9LF | HM2J07PE5110N9LF | HM2S10PE5101N9LF | HM2S10PE5100N9LF |
| **Type B** | module length 50 mm<br>125 pos<br>no service center | HM2J08PE5118N9LF | HM2J08PE5110N9LF | HM2S02PE5101N9LF | HM2S02PE5100N9LF |
| **Type C** | module length 25 mm<br>55 pos<br>service center-left | HM2J09PE5118N9LF | HM2J09PE5110N9LF | HM2S30PE5101N9LF | HM2S30PE5100N9LF |

### TECHNICAL DATA

#### PHYSICAL

| | |
|---|---|
| Header | Housing high temp. Thermoplastic (UL94 V-0) |
| Receptacle | Housing high temp. Thermoplastic (UL94 V-0) |
| Pin/contact | Phosher Bronze |
| Performance | Telecordia CO and IEC Performance Level 2 |
| Temperature | -55 C to +125 C |

#### MECHANICAL

| | |
|---|---|
| Insertion force | 0.75 N min. per contact pair |
| Withdrawal force | 0.15 N min. per contact pair |
| Mating force | 0.75 N min. per contact pair |
| Mating cycles | 250 |

#### ELECTRICAL

| | |
|---|---|
| Current rating | 1.5 A / 1 A |
| Resistance | (contact) 20 milli ohms max. |
| Resistance | (Insulation) 10,000 M ohm min. |
| Voltage | 750 V rms |

#### MOUNTING STYLE

Press-fit

#### PACKAGING

Trays

#### REFERENCE DATA

| | |
|---|---|
| Product specification | GS-12-203 |
| Application specification | GS-20-022 |

## 8 Row Signal - Standard

Type D

Type DE

Type E

Type F

| Millipacs® 8 row signal-standard | | | Header Straight | | Shroud | Receptacle Right Angle | |
|---|---|---|---|---|---|---|---|
| | | | shielded | non-shielded | | top shielded | non-shielded |
| **Type D** | module length 50 mm<br>176 pos<br>service center | press-fit | HM2P87PD8111N9LF | HM2P87PD8110N9LF | HM2H87P1LF | HM2R87PA8108N9LF | HM2R87PA8100N9LF |
| | | rear-plug-up | HM2P87PK8111GFLF | HM2P87PK8110GFLF | | | |
| **Type DE** | module length 50 mm<br>200 pos<br>guiding pegs | press-fit | HM2P95PD8111N9LF | HM2P95PD8110N9LF | HM2H95P1LF | HM2R95PA8108N9LF | HM2R95PA8100N9LF |
| | | rear-plug-up | HM2P95PK8111GFLF | HM2P95PK8110GFLF | | | |
| **TypeE** | module length 50 mm<br>200 pos<br>no serice center | press-fit | HM2P88PD8111N9LF | HM2P88PD8110N9LF | HM2H88P1LF | HM2R88PA8101N9LF | HM2R88PA8100N9LF |
| | | rear-plug-up | HM2P88PK8111GFLF | HM2P88PK8110GFLF | | | |
| **Type F** | module length 25 mm<br>88 pos<br>service center-left | press-fit | HM2P89PD8111N9LF | HM2P89PD8110N9LF | HM2H89P1LF | HM2R89PA8108N9LF | HM2R89PA8100N9LF |
| | | rear-plug-up | HM2P89PK8111GFLF | HM2P89PK8110GFLF | | | |

### TECHNICAL DATA

#### PHYSICAL

| | |
|---|---|
| Header | Housing Thermoplastic (UL94 V-0) |
| Receptacle | Housing high temp. Thermoplastic (UL94 V-0) |
| Pin/contact | Phosher Bronze |
| Performance | Telecordia CO and IEC Performance Level 2 |
| Temperature | -55 C to +125 C |

#### MECHANICAL

| | |
|---|---|
| Insertion force | 0.75 N min. per contact pair |
| Withdrawal force | 0.15 N min. per contact pair |
| Mating force | 0.75 N min. per contact pair |
| Mating cycles | 250 |

#### ELECTRICAL

| | |
|---|---|
| Current rating | 1.5 A / 1 A |
| Resistance | (contact) 20 milli ohms max. |
| Resistance | (Insulation) 10,000 M ohm min. |
| Voltage | 750 V rms |

#### MOUNTING STYLE

Press-fit

#### PACKAGING

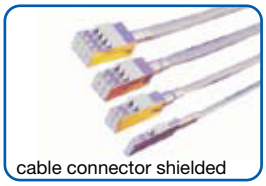
Trays

#### REFERENCE DATA

| | |
|---|---|
| Product specification | GS-12-203 |
| Application specification | GS-20-022 |

## Cable Connectors

cable connector non-shielded


cable connector shielded

shroud and locking key

| LF - Low Frequency | | | AWG 26 | AWG 28 - 30 |
|---|---|---|---|---|
| Cable Connector | non-shielded | 2 x 5 positions | HM2C06D2C010N9LF | HM2C06D0C010N9LF |
| | | 4 x 5 positions | HM2C01D2C010N9LF | HM2C01D0C010N9LF |
| | shielded | 2 x 5 positions | HM2C09D2C011N9LF | HM2C09D0C011N9LF |
| | | 6 x 5 positions | HM2C11D2C011N9LF | HM2C11D0C011N9LF |
| | | 8 x 5 positions | HM2C12D2C011N9LF | HM2C12D0C011N9LF |

| Rear-plug-up accessories | | |
|---|---|---|
| Cable-to-board Shroud | 5 x 5 positions | HM2H04P1LF |
| | 5 x 25 positions | HM2H05P1LF |
| Locking Key | | HM2LK1LF |

### TECHNICAL DATA

#### PHYSICAL

| | |
|---|---|
| Receptacle | Housing high temp. Thermoplastic (UL94 V-0) |
| Pin/contact | Phosher Bronze |
| Performance | Telecordia CO and IEC Performance Level 2 |
| Temperature | -55 C to +125 C |

#### MECHANICAL

| | |
|---|---|
| Withdrawal force | 0.15 N min. per contact pair |
| Mating force | 0.75 N min. per contact pair |
| Mating cycles | 250 |

#### ELECTRICAL

| | |
|---|---|
| Current rating | 1.5 A / 1 A |
| Resistance | (contact) 20 milli ohms max. |
| Resistance | (Insulation) 10,000 M ohm min. |
| Voltage | 750 V rms |

#### MOUNTING STYLE

IDC for AWG 24-26

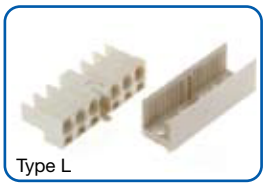
#### PACKAGING

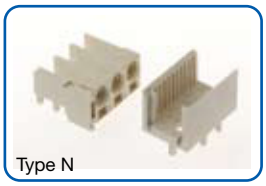
Trays

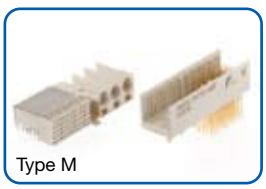
#### REFERENCE DATA

Product specification GS-12-203

## Signal & Power


Type L


Type N


Type M

| Signal & Power | | Header Straight | Receptacle Right Angle |
|---|---|---|---|
| Type L | module length 50 mm<br>6 power positions<br>service center | HM2A30PG5000LF | HM2E30PH5000LF |
| Type N | module length 25 mm<br>3 power positions<br>service center | HM2A32PG5000LF | HM2E32PH5000LF |
| Type M | module length 50 mm<br>3 power + 55 signal positions<br>service center + location pegs | HM2P11PD5111N9LF | HM2R05PA5108N9LF |

### TECHNICAL DATA

#### PHYSICAL

| | |
|---|---|
| Header | housing high temp. Thermoplastic (UL94 V-0) |
| Receptacle | housing high temp. Thermoplastic (UL94 V-0) |
| Pin/contact | Phosher Bronze |
| Performance | Telecordia CO and IEC Performance Level 2 |
| Temperature | -55 C to +125 C |

#### MECHANICAL

| | |
|---|---|
| Insertion force | 0.75 N min. per contact pair |
| Withdrawal force | 0.15 N min. per contact pair |
| Mating force | 0.75 N min. per contact pair |
| Mating cycles | 250 |

#### ELECTRICAL

| | |
|---|---|
| Current rating | 1.5 A / 1 A |
| Resistance | (contact) 20 milli ohms max. |
| Resistance | (Insulation) 10,000 M ohm min. |
| Voltage | 750 V rms |

#### MOUNTING STYLE

Signal contacts press-fit,
Power contacts press-fit DIN41626

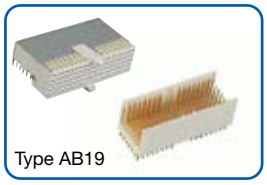
#### PACKAGING

Trays

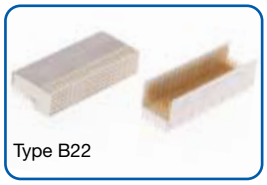
#### REFERENCE DATA

Product specification GS-12-203

## 5 Row - CompactPCI


Type AB19

Type AB22


Type B22

| CompactPCI 5 row | | | Header Straight | | Shroud | Receptacle Right Angle | |
|---|---|---|---|---|---|---|---|
| | | | shielded | non-shielded | | top shielded | non-shielded |
| Type AB19 | module length 38 mm 95 pos guiding pegs | press-fit | HM2P67PD5111N9LF | HM2P67PD5110N9LF | HM2H67P1LF | HM2R67PA5108N9LF | HM2R67PA5100N9LF |
| | | rear-plug-up | HM2P67PK5111GFLF | HM2P67PK5110GFLF | | | |
| Type AB22 | module length 44 mm 110 pos guiding pegs | press-fit | HM2P66PD5111N9LF | HM2P66PD5110N9LF | HM2H66P1LF | HM2R66PA5108N9LF | HM2R66PA5100N9LF |
| | | rear-plug-up | HM2P66PK5111GFLF | HM2P66PK5110GFLF | | | |
| Type B22 | module length 44 mm 110 pos no service center | press-fit | HM2P70PD5111N9LF | HM2P70PD5110N9LF | HM2H70P1LF | HM2R70PA5108N9LF | HM2R70PA5100N9LF |
| | | rear-plug-up | HM2P70PK5111GFLF | HM2P70PK5110GFLF | | | |

### TECHNICAL DATA

#### PHYSICAL

| | |
|---|---|
| Header | Housing Thermoplastic (UL94 V-0) |
| Receptacle | Housing high temp. Thermoplastic (UL94 V-0) |
| Pin/contact | Phosher Bronze |
| Performance | Telecordia CO and IEC Performance Level 2 |
| Temperature | -55 C to +125 C |

#### MECHANICAL

| | |
|---|---|
| Insertion force | 0.75 N min. per contact pair |
| Withdrawal force | 0.15 N min. per contact pair |
| Mating force | 0.75 N min. per contact pair |
| Mating cycles | 250 |

#### ELECTRICAL

| | |
|---|---|
| Current rating | 1.5 A / 1 A |
| Resistance | (contact) 20 milli ohms max. |
| Resistance | (Insulation) 10,000 M ohm min. |
| Voltage | 750 V rms |

#### MOUNTING STYLE

Press-fit

#### PACKAGING

Trays

#### REFERENCE DATA

| | |
|---|---|
| Product specification | GS-12-203 |
| Application specification | GS-20-022 |

## Accessories

### Bottom Shield

### Coding Devices

### Power Contacts

| Accessories | Connector Type | | Part number |
|---|---|---|---|
| Bottom shield | Type A | Millipacs | HM2LS22ALF |
| | Type AB | Millipacs | HM2LS22ALF |
| | Type AB19 | CompactPCI | HM2LS66ALF |
| | Type AB22 | CompactPCI | HM2LS67ALF |
| | Type B22 | CompactPCI | HM2LS70ALF |
| | Type C | Millipacs | HM2LS11ALF |
| | Type CR | Millipacs | HM2LS11ALF |
| | Type D | Millipacs | HM2LS22A8LF |
| | Type DE | Millipacs | HM2LS25A8LF |
| | Type E | Millipacs | HM2LS25A8LF |
| | Type F | Millipacs | HM2LS11A8LF |
| | Type M | Millipacs | HM2LS11ALF |

| Accessories | Colour | Plug | Receptacle |
|---|---|---|---|
| Coding Devices | cadmium-yellow | HM2DK3456PLF | HM2DK1278RLF |
| | brilliant-blue | HM2DK1567PLF | HM2DK2348RLF |
| | reseda-green | HM2DK2578PLF | HM2DK1346RLF |
| | strawberry-red | HM2DK1248PLF | HM2DK3567RLF |

| Accessories | Pin contact | Socket contact |
|---|---|---|
| Dipsolder Power contacts (10 A max current) | RM12PIE52ERPLF | RC12PIE52ERPLF |

#### REFERENCE DATA

Product specification GS-12-203

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