

**FEATURES AND SPECIFICATIONS**

**Features and Benefits**

- Up to 35 contacts
- Selective loading available
- Rear plug pin lengths available
- First-make/last-break contacts
- Last-make/first-break contacts (Available at any position)
- C-pins

**Electrical**

Working Voltage: 750Vrms (fully loaded)  
 Current: 1.5A max. (fully loaded)  
 Contact Resistance: 30mΩ max.  
 Dielectric Withstanding Voltage: 1000V  
 Insulation Resistance: 10<sup>6</sup> MΩ min.

**Mechanical**

Insertion Force to PCB: 160N (35.97 lb) max.  
 Mating Force: 1N (.22 lb) max.  
 Unmating Force: 0.6N (.13 lb) min.  
 Durability: PL 1—500 cycles  
 PL 2—250 cycles

**Physical**

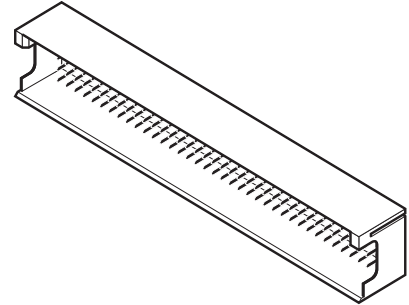
Housing: Polycarbonate, UL 94V-0  
 Contact: Phosphor Bronze  
 Plating: Gold performance level 1, 2 per IEC 1076-4-100  
 PCB Thickness: 1.60 to 2.00mm (.063 TO .079")  
 Operating Temperature: -55 to +125°C



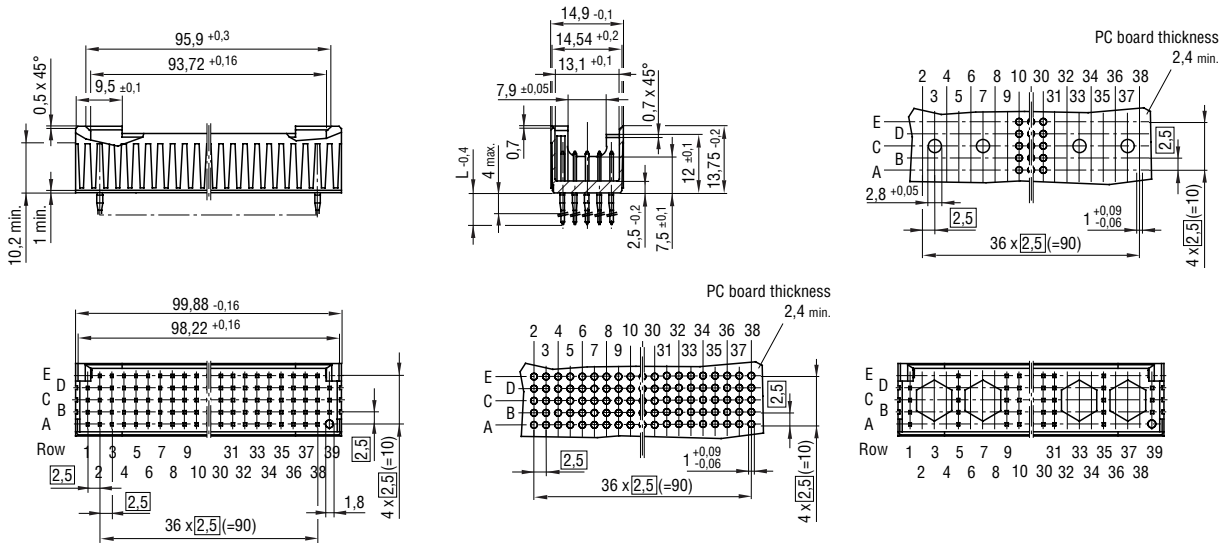
**2.50mm (.098") Pitch  
 Omnigrid®  
 Board-to-Board  
 Backplane Header**

**85105**

**Male, 4 SU + Power**



**CATALOG DRAWING (FOR REFERENCE ONLY)**



**ORDERING INFORMATION**

Arrangement	Termination L	Order No.			
		G1/0	G1/1	G2/0	G2/2
1	6	85105-0012		85105-0062	
1	14		85105-0103		85105-0139
1	17,75		85105-0115		85105-0141
2	6	85105-0177		85105-0220	
2	14		85105-0268		85105-0294
2	17,75		85105-0270		85105-0309
1+Power 3+7	6	85125-0103		85125-0115	
1+Power 3+7	14		85125-0139		85125-0153
1+Power 3+7	17,75		85125-0177		85125-0191
1+Power 33+37	6	85125-0000		85125-0012	
1+Power 33+37	14		85125-0036		85125-0050
1+Power 33+37	17,75		85125-0074		85125-0098
1+Power 3+7+33+37	6	85125-0206		85125-0218	
1+Power 3+7+33+37	14		85125-0232		85125-0256
1+Power 3+7+33+37	17,75		85125-0270		85125-0294

Power Male Pin	
Length	Order No.
17.20 (.677)	85910-2034
21.25 (.837)	85910-2035

Note: For contact plating codes (GX/X see Omnigrid Performance Page) For press-in insertion, please refer to tooling section. For other versions –tail length, plating, arrangements – please contact your local Molex office.