



(2,54 mm) .100"

HPFC, HPMC SERIES

# SIGNAL POWER COMBO SYSTEM

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?HPFC](http://www.samtec.com?HPFC) or [www.samtec.com?HPMC](http://www.samtec.com?HPMC)

**Insulator Material:**  
Black Liquid Crystal Polymer  
**Signal Contact (HPFC):**  
Phosphor Bronze  
**Power Contact (HPFC):**  
BeCu  
**Terminal (HPMC):**  
Phosphor Bronze (Signal & Power)  
**Plating:**  
Sn or Au over 50µ" (1,27 µm)  
Ni on signal pins; Sn over 50µ" (1,27 µm) Ni on power pins  
**Operating Temp Range:**  
-55°C to +105°C with Tin;  
-55°C to +125°C with Gold  
**Contact Resistance:**  
10 mΩ  
**Insertion Depth:**  
(3,68 mm) .145" to (8,26 mm) .325"  
**Wiping Distance:**  
(0,381 mm) .015"  
**Insertion Force:**  
(Single contact only)  
5 oz (1,39 N) avg. (signal pins)  
56 oz (15,57 N) avg. (power pins)  
**Withdrawal Force:**  
(Single contact only)  
3 oz (0,83 N) avg. (signal pins)  
52 oz (14,46 N) avg. (power pins)  
**Voltage Rating:**  
850 VAC/1201 VDC  
**RoHS Compliant:**  
Yes

**Processing:**  
**Lead-Free Solderable:**  
Yes  
**SMT Lead Coplanarity:**  
(0,15 mm) .006" max (02-20)  
(0,20 mm) .008" max (21-24)

## RECOGNITIONS

For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)



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

<b>HPFC</b>	<b>1</b>	<b>SIGNAL PIN PER ROW</b>	<b>LEAD STYLE</b>	<b>SIGNAL PIN PLATING</b>	<b>D</b>	<b>POWER PINS</b>	<b>OPTION</b>
Mates with: HPMC		<b>02 thru 24</b>	<b>-01</b> = Through-Hole <b>-02</b> = Surface Mount	<b>-L</b> = 10µ" (0,25 µm) Gold on contact area, Matte Tin on tail (Power Pins = All Matte Tin) <b>-T</b> = Matte Tin		<b>02 thru 04</b>	<b>-LC</b> = Locking Clip (Manual placement required) (Not available with -01 lead style) <b>-K</b> = (6,50 mm) .256" DIA Polyimide film Pick & Place Pad (5 positions minimum)

**RUGGEDIZED SAMTEC**  
• Locking clip option

<b>HPMC</b>	<b>1</b>	<b>SIGNAL PIN PER ROW</b>	<b>LEAD STYLE</b>	<b>SIGNAL PIN PLATING</b>	<b>D</b>	<b>POWER PINS</b>
Mates with: HPFC		<b>02 thru 24</b>	Specify LEAD STYLE from chart	<b>-L</b> = 10µ" (0,25 µm) Gold on contact area, Matte Tin on tail (Power Pins = All Matte Tin) <b>-T</b> = Matte Tin		<b>02 thru 04</b>

LEAD STYLE	A
-01, -02	(5,84) .230
-03, -04	(8,13) .320

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