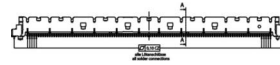


# Product Data Sheet

Colibri Plug 440, 5mm,  
Part No. 401-51501-51



**COM**   
**Express**®

Illustration similar



Parallel



SMT



High Density



High Speed

- for 5 mm board-to-board distance
- overmating distance up to +0.6 mm
- 440 contacts
- termination technology SMT
- pitch 0.5 mm
- data transfer rate 10+ Gbps



» to product on [www.ept.de](http://www.ept.de)



» to product group Colibri - 0.5 mm SMT

# Product Data Sheet

Colibri Plug 440, 5mm,  
Part No. 401-51501-51



## Technical Specifications

### Basics

Specification	PICMG® COM.0 Rev 3.1
No. of Contacts	440
Termination Technology	SMT
Board-to-Board Distance	5 mm
Operating Temperature Range	-40°C to +125°C

### Material

Insulator Material	LCP, UL 94 V-0
CTI value <i>IEC 60112</i>	175
Contact Material	Copper alloy
Plating	Au over Ni
Termination area	Au flash over Ni

### Mechanical

Pitch	0.5 mm
Mating Force per Pin	max. 0.9 N
Separating Force per Pin	min. 0.1 N
Durability	30 mating cycles
Coplanarity	max. 0.1 mm
Overmating Distance	0.6 mm
Center offset in the x direction	± 0.4 mm
Center offset in the y direction	± 0.19 mm
Axial offset when mated (x/y)	± 0.1 mm (8mm stacking height) / ± 0.115 mm (5mm stacking height)
Angular offset in the x direction	± 2°

### Electrical

Operational Current	max. 0.5 A
Operational Voltage	50 VAC
Contact Resistance	max. 75 mΩ
Clearance and Creepage	≥ 0.15 mm
Insulation Resistance	> 100 MΩ
Test Voltage	200 VAC
Data Transfer Rate	10 Gbit/s

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## Technical Specifications

### Processing

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Soldering Temperature 260°C per J-STD-020

MSL 1

Assembly Pick and Place

### Approval / Compliance

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UL file E130314

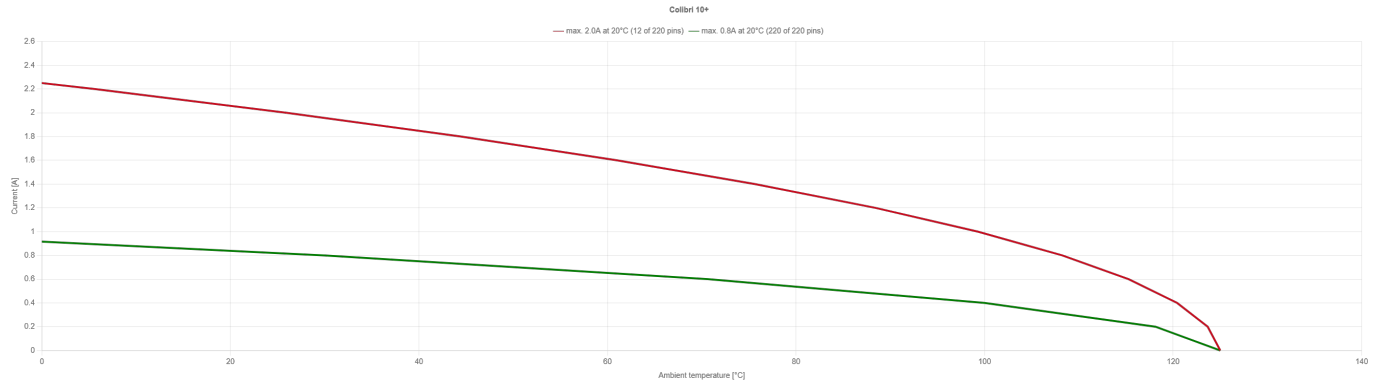
Environment RoHS compliant

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## Derating Diagram



# Product Data Sheet

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## Modifications

Available on request

- different number of contacts
- other stacking heights
- alternative contact surfaces

## Drawings

Component data in 2D and 3D format you can download here:

[» PDF](#)

[» 3D STEP](#)

[» 3D PDF](#)