Product Data Sheet

Zero8 socket mid-profile geschirmt, Part No. 406-53120-51

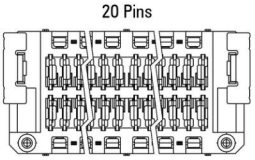


Illustration similar

Parallel

SMT

High Density

High Speed

Rugged

EMC

- Bauhöhe 7.85 mm
- Kontaktüberdeckung 1.5 mm
- Polzahl 20 im Raster 0.8 mm
- Anschlusstechnik SMT
- EMV-Schirmung
- Performance level 1

» to product on www.ept.de

» to product group Zero8

ept GmbH | Bergwerkstr. 50 | 86971 Peiting | Tel. +49 (0) 8861 / 25 01 0 | Fax +49 (0) 8861 / 55 07 | sales@ept.de | **www.ept.de**

Product Data Sheet

Zero8 socket mid-profile geschirmt, Part No. 406-53120-51

Technical Specifications

Basics

Performance Level *IEC 60512-9-1:2010*	1
No. of Contacts	20
Termination Technology	SMT
Board-to-Board Distance	9.00 mm bis 18.0 mm
Operating Temperature Range	-55°C bis + 125°C

Material

Insulator Material	LCP, UL 94 V-0
CTI value *IEC 60112*	150
Contact Material	Kupferlegierung
Plating	Au über Ni
Termination area	Sn über Ni

Mechanical

Pitch	0.8 mm
Mating Force per Pin	≤ 0.5 N
Separating Force per Pin	≤ 0.4 N
Durability *IEC 60512-9-1*	500 Steckzyklen
Coplanarity	≤ 0.1 mm
Vibration, sinusoidal *IEC 60512-6-4*	10 - 2000 Hz, 20g
Contact mating problems if vibrations occur, sinusoidal *IEC 60512-2-5*	≤ 1 µs
Shock, semi-sinusoidal *IEC 60512-6-3*	50g, 11 ms
Contact mating problems if shock occur, semi-sinusoidal *IEC 60512-2-5*	≤ 1 µs
Overmating Distance	0.8 mm
Wipe lenght	1.5 mm
Center offset	± 0.7 mm
Axial offset when mated (x/y)	± 0.4 mm
Angular offset	± 5°

ept GmbH | Bergwerkstr. 50 | 86971 Peiting | Tel. +49 (0) 8861 / 25 01 0 | Fax +49 (0) 8861 / 55 07 | sales@ept.de | **www.ept.de**

Product Data Sheet

Zero8 socket mid-profile geschirmt, Part No. 406-53120-51

Technical Specifications

Electrical

Operational Current *IEC 60512-5-2*	1.7 A pro Pin bei 20°C (80 von 80 Pins bestromt) 5.5 A pro Pin bei 20°C (2 von 80 Pins bestromt) 5.1 A pro Pin bei 20°C (4 von 80 Pins bestromt) 16 A bei 20°C (Schirm bestromt)
Test Voltage *IEC 60512-4-1*	500 VAC
Contact Resistance *IEC 60512-2-1*	≤ 20 mΩ
Clearance and Creepage	0.25 mm
Insulation Resistance *IEC 60512-3-1*	> 5 GΩ
Data Transfer Rate	16 Gbit/s

Processing

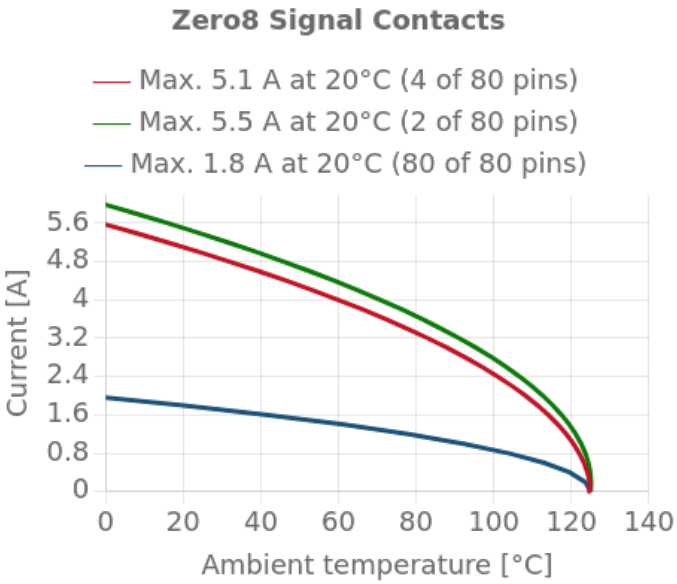
Soldering Temperature *JEDEC J-STD-020E*	20 - 40 s bei 260°C
MSL *JEDEC J-STD-020E*	1
Assembly	Pick and Place

Approval / Compliance

UL file	E130314
Environment	RoHS konform

ept GmbH | Bergwerkstr. 50 | 86971 Peiting | Tel. +49 (0) 8861 / 25 01 0 | Fax +49 (0) 8861 / 55 07 | sales@ept.de | **www.ept.de**

Derating Diagram



ept GmbH | Bergwerkstr. 50 | 86971 Peiting | Tel. +49 (0) 8861 / 25 01 0 | Fax +49 (0) 8861 / 55 07 | sales@ept.de | **www.ept.de**

Modifications

Available on request

- andere Polzahlen
- andere Gütestufen

Drawings

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

» PDF » 3D IGES » 3D STEP » 3D PDF

ept GmbH | Bergwerkstr. 50 | 86971 Peiting | Tel. +49 (0) 8861 / 25 01 0 | Fax +49 (0) 8861 / 55 07 | sales@ept.de | **www.ept.de**