

SPE-T1-M8MSM-180-SMD - SPE PCB connector



1215777

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SPE PCB connector, design: IEC 63171-5, degree of protection: IP20, number of positions: 2, CAT B (ISO/IEC 63171), material: Plastic, connection method: SMD, Single Pair Ethernet

Your advantages

- Connectors in accordance with IEC 63171-2
- THR solderable
- Data transmission up to 600 MHz
- Packaging available for automated pick and place assembly

Commercial data

Item number	1215777
Packing unit	100 pc
Minimum order quantity	100 pc
Sales key	ABNBDB
Product key	ABNBDB
GTIN	4063151297015
Weight per piece (including packing)	31,734 g
Weight per piece (excluding packing)	31,734 g
Customs tariff number	85366930
Country of origin	DE

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Technical data

Product properties

Type	SPE
Sensor type	Single Pair Ethernet
Number of positions	2
Connection profile	SPE M8
Type of packaging	Tape and Reel
Number of slots	1
Shielded	yes
Thread type	M8

Insulation characteristics

Overvoltage category	I
Degree of pollution	2

Electrical properties

Rated voltage (III/2)	72 V DC
Rated surge voltage	2250 V DC
Rated surge voltage (III/2)	1500 V
Rated surge voltage	1000 V DC
Rated current	4 A
Frequency range	5 Hz ... 500 Hz
Insulation resistance	> 1 TΩ
Contact resistance	20 mΩ (in accordance with IEC 63171)
Transmission medium	Copper
Transmission characteristics (category)	CAT B (ISO/IEC 63171)
Transmission speed	1 Gbps
Power transmission	PoDL

Output data

Transmission frequency	600.00 MHz
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Connection data

Connection technology

Connection method	SMD
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Dimensions

Width	10.1 mm
Height	22.1 mm
Length	14.5 mm
Installed height	21.50 mm
Orientation to PCB	180.00 °

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Material specifications

Flammability rating according to UL 94	V0
Housing material	Plastic
Contact material	Copper alloy
Contact surface material	Gold
Contact carrier material	LCP

Cable/line

Test voltage Core/Core	1000 V DC
Test voltage Core/Shield	2250.00 V DC
Halogen-free	yes
Resistance to oil	yes
Flame resistance	yes

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
Insertion force per signal contact	< 30.00 N (in accordance with IEC 63171)
Extraction force per signal contact	< 30 N (in accordance with IEC 63171)

Environmental and real-life conditions

Test specification

Specification	IEC 63171
Cold stress	-40°C
Thermal stress	85°C
Corrosive stress	IEC 60512-11-7

Test specification

Specification	IEC 60068-2-6
Frequency	5-500 Hz
Sweep speed	1 octave/min
Amplitude	0.75 mm
Acceleration	100.00 m/s ²
Test duration	20.00 s

Test specification

Specification	IEC 60068-2-27
Acceleration	500.00 m/s ²
Number of shocks per direction	18.00

Standards and regulations

Flame resistance	yes
Resistance to oil	yes

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Mounting

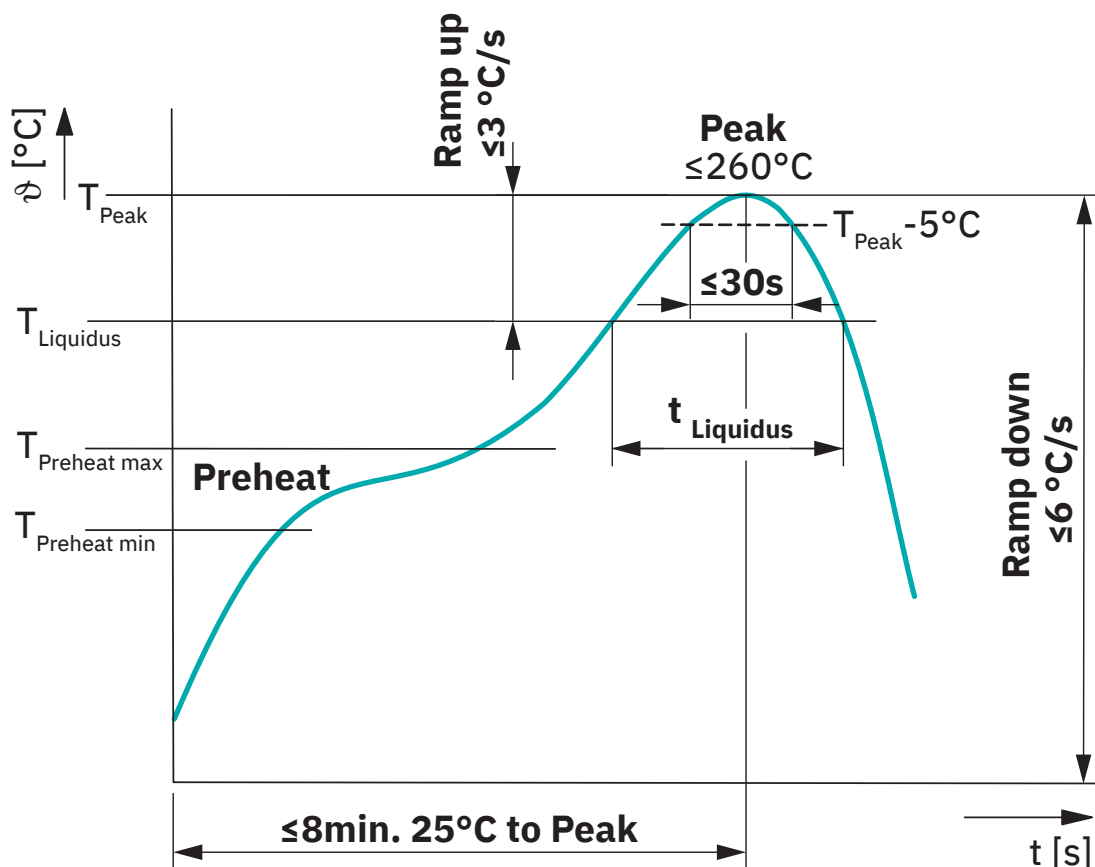
Mounting type	SMD soldering
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Processing notes

Process	Reflow/wave soldering
Moisture Sensitive Level	MSL 1
Solder cycles in the reflow	3

Drawings

Diagram



Classification reflow soldering profile

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Classifications

ECLASS

ECLASS-13.0	27440110
ECLASS-15.0	27440110

ETIM

ETIM 10.0	EC003568
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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