SPE-T1-STSM-180 - SPE PCB connector

1163798

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SPE PCB connector, SPE, Single Pair Ethernet, CAT B (ISO/IEC 63171) (1 Gbps), 2-position, connection method: THR solder connection, material: Metal, degree of protection: IP20

Your advantages

- Compact design for maximum space savings
- Connectors in accordance with IEC 63171-2
- THR solderable
- Robust industrial design
- 360° shielding
- Data transmission up to 600 MHz

Commercial data

Item number	1163798
Packing unit	300 pc
Minimum order quantity	300 pc
Sales key	AB13
Product key	ABNBBA
GTIN	4063151174095
Weight per piece (including packing)	1.857 g
Weight per piece (excluding packing)	1.857 g
Customs tariff number	85366930
Country of origin	BG

Technical data

Product properties

Product type	Data connector (device side)
Type	SPE
Number of positions	2
Connection profile	SPE
Type of packaging	Tape and Reel
Number of slots	1
Shielded	yes
Cable outlet	straight

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 current	4 A
Frequency range	600 MHz
Insulation resistance	> 1 TΩ
Transmission medium	Copper
Transmission speed	1 Gbps (in accordance with IEEE 802.3 bp)
	100 Mbps (in accordance with IEEE 802.3 bw)
	10 Mbps (in accordance with IEEE 802.3 cg)
Transmission characteristics (category)	CAT B (IEC 63171)
Power transmission	PoDL

Connection data

Connection technology

Connection method	THR solder connection

Interfaces

Signal type/category	Single Pair Ethernet CAT B (ISO/IEC 63171), 1 Gbps (in accordance with IEEE 802.3 bp)

Dimensions

Width	5 mm
Height	11.4 mm
Length	9.3 mm

Material specifications

Flammability rating according to UL 94	V0
Housing material	Metal
Contact material	Copper alloy
Contact surface material	Ni/Au
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	UL 94 V0

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 750
Insertion force per signal contact	< 1.50 N
Extraction force per signal contact	< 1.5 N

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
	IP20
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Resistance to oil	yes

Standards and regulations

Flame resistance	UL 94 V0
Resistance to oil	yes

Mounting

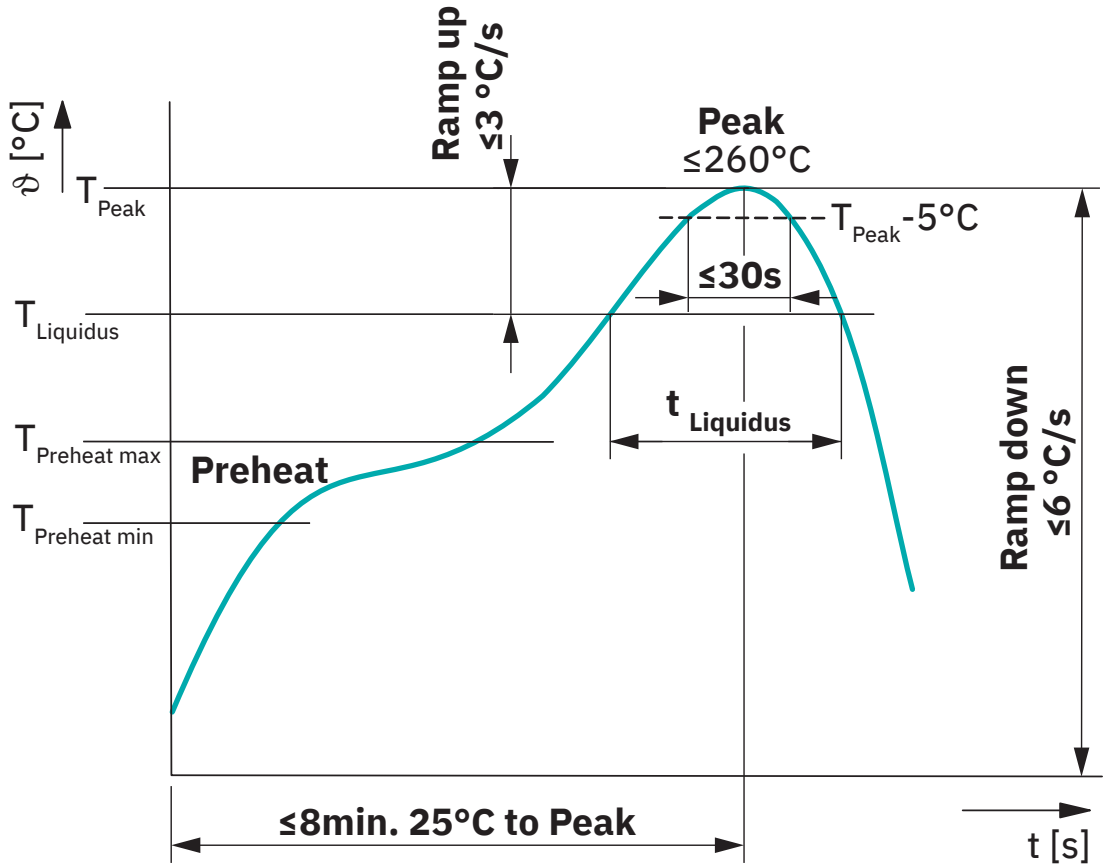
Mounting type	THR soldering

Processing notes

Moisture Sensitive Level	MSL 1

Drawings

Diagram



Classification reflow soldering profile

Approvals

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cULus Recognized
Approval ID: E335024-20220331

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	60 V	1.4 A	-	-

Classifications

ECLASS

ECLASS-13.0	27460201
ECLASS-15.0	27460201

ETIM

ETIM 10.0	EC002637

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

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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