SPE-T1-M12MSM-180 - SPE PCB connector

1363336

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SPE PCB connector, SPE, Single Pair Ethernet (1 Gbps), 2-position, connection method: THR solder connection, material: LCP, degree of protection: IP65/IP67, color: black

Your advantages

- Connectors in accordance with IEC 63171-5
- THR solderable
- Data transmission up to 600 MHz

Commercial data

Item number	1363336
Packing unit	80 pc
Minimum order quantity	80 pc
Sales key	AB13
Product key	ABNBEA
GTIN	4063151708221
Weight per piece (including packing)	7.3 g
Weight per piece (excluding packing)	2.553 g
Customs tariff number	85366930
Country of origin	DE

Technical data

Product properties

Product type	Circular connectors (device side)
Type	SPE
Number of positions	2
Type of packaging	Tape and Reel
[W] tape width	44.00 mm
[A] coil diameter	330.00 mm
[W2] coil overall dimension	50.40 mm
Number of slots	1
Cable outlet	straight
Thread type	M12

Insulation characteristics

Overvoltage category	II
Degree of pollution	2

Dimensions

Width	12.4 mm
Installed height	21.60 mm
Height	23.8 mm
Length	13.7 mm
Orientation to PCB	180.00 °

Material specifications

Color	black
Color of the housing part	black
Material Metal surface contact area (top layer)	Au
Material Metal surface contact area (middle layer)	Ni
Material Metal surface soldering area (top layer)	Au
Material Metal surface soldering area (middle layer)	Ni
Flammability rating according to UL 94	V0
Housing material	LCP
Housing surface material	LCP
Contact material	Cu alloy
Contact surface material	Au/Ni

Electrical properties

Maximum load current	4 A
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	min. 1 TΩ
Contact resistance	20 mΩ
Transmission medium	Copper
Transmission speed	1 Gbps
Transmission characteristics (category)	CAT B (IEC 63171)
Power transmission	PoDL in accordance with IEEE standard 802.3bt

Connection data

Conductor connection

Connection method	THR solder connection

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)
Smallest bending radius	21,2 mm

Interfaces

Signal type/category	Single Pair Ethernet, 1 Gbps
Transmission speed	1 Gbps1 Gbps

Cable/line

Test voltage Core/Core	1000 V DC
Test voltage Core/Shield	2250.00 V DC
Test voltage, cable	300 V

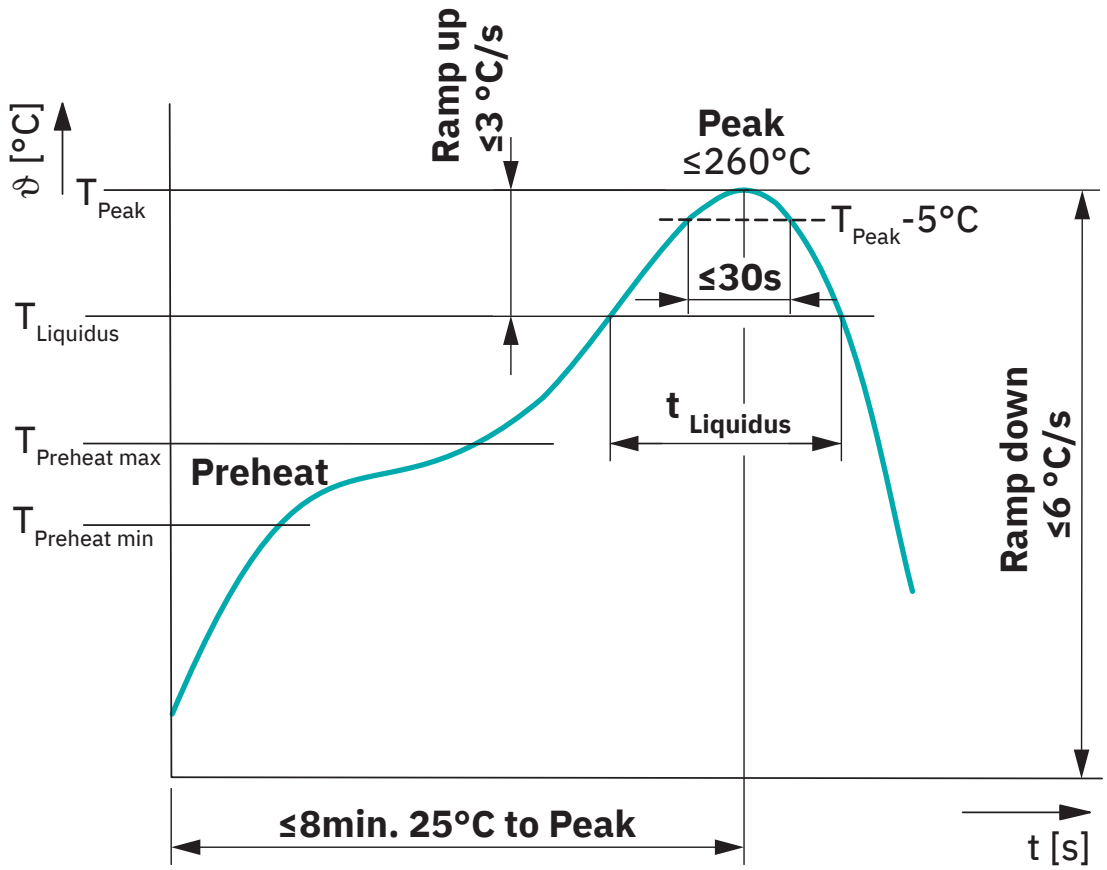
Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65/IP67
Ambient temperature (operation)	-40 °C ... 85 °C (Harsh environment)
Ambient temperature (storage/transport)	-40 °C ... 85 °C (DIN EN 60512-6-3)
Resistance to UV radiation	yes

Drawings

Diagram



Classification reflow soldering profile

Classifications

ECLASS

ECLASS-13.0	27460201
ECLASS-15.0	27460201

ETIM

ETIM 10.0	EC002637

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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