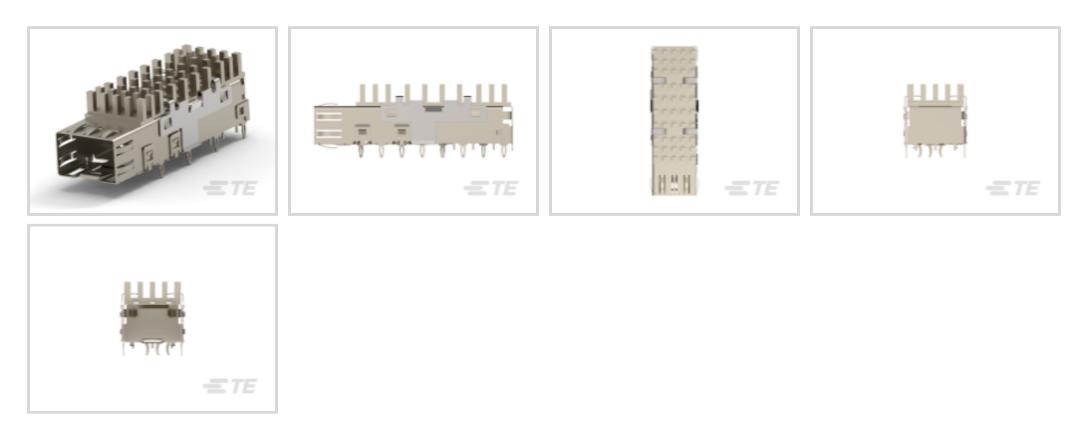


SFP28 | DWDM

TE Internal #: 1367645-5 SFP, Cage Assembly, Signal, Operating Temperature Range -55 – 85 °C [-67 – 185 °F], Data Rate (Max) 4 Gb/s, 20 Position, 1 Ports View on TE.com >

connectivity

Connectors > Pluggable IO Connectors & Cages > SFP Connectors



Form Factor: SFP

Pluggable I/O Product Type: Cage Assembly

Sealable: No

Circuit Application: Signal

Operating Temperature Range: -55 – 85 °C [-67 – 185 °F]

All SFP Connectors (10)

Features

Product Type Features

Cage Туре	Single
Thermal Accessory Type Included	Heat Sink
Form Factor	SFP
Pluggable I/O Product Type	Cage Assembly
Sealable	No
Configuration Features	
Number of Positions	20
Number of Ports	1
Port Matrix Configuration	1 × 1
Electrical Characteristics	
Data Rate (Max)	4 Gb/s
Body Features	
Heat Sink Style	Pin

1367645-5

SFP, Cage Assembly, Signal, Operating Temperature Range -55 – 85 °C [-67 – 185 °F], Data Rate (Max) 4 Gb/s, 20 Position, 1 Ports



Cage Material Copper Alloy Cage Material Copper Alloy PCB Thickness (Recommended) 2.25 mm[.089 in] Jsage Conditions Jsage Conditions Operating Temperature Range 55 – 85 °C[-67 – 185 °F] Operating Temperature Range 55 – 85 °C[-67 – 185 °F] Pluggable I/O Applications SFP Pluggable I/O Applications SFP Circuit Application Signal Packaging Features Signal Packaging Method Box & Tray Included Lightpipe No Included Lightpipe No EMIContainment Feature Type Internal/External EMI Springs		.256 in
Termination Mathod to PCBThrough Hole - Press-TitTermination Post & Tail Length3 mm (.118 in)Housing FeaturesCopper AlloyCage MaterialCopper AlloyDimensions	Heat Sink Height Class	SAN
Termination Past & Tail LengthSimp[118 in]Housing FeaturesCopper AlloyCage MaterialCopper AlloyCoper Alloy225 mm1089 in]Coperation S255 mm1089 in]Jage ConditionsSF = SC [67 - 165 'F]Operation Zenge ConditionsSF = SC 'SC [67 - 165 'F]Operation Zenge ConditionsSF = SC 'SC [67 - 165 'F]Operation Zenge ConditionsSF = SC 'SC [67 - 165 'F]Operation Zenge ConditionsSF = SC 'SC [67 - 165 'F]Operation Zenge ConditionsSF = SC 'SC [67 - 165 'F]Operation Zenge ConditionsSF = SC 'SC [67 - 165 'F]Plugable I/O ApplicationSF = SC 'SC [67 - 165 'F]Plugable I/O ApplicationSF = SC 'SC [67 - 165 'F]Curicit ApplicationSF = SC 'SC 'SC 'SC 'SC 'SC 'SC 'SC 'SC 'SC	Termination Features	
Housing Features Cage Material Copper Alloy Capera Marchial Copper Alloy Capera Marchial Capera Marchial Kapera Marchial Kaper	Termination Method to PCB	Through Hole - Press-Fit
Cage MaterialCooper AlloyCage MaterialCooper AlloyDimensions2.25 mm[.089 in]Usage Conditions2.25 mm[.089 in]Usage Conditions4.55 - 85 °C[47 - 185 °F]Operating Temperature Range4.55 - 85 °C[47 - 185 °F]Operation/ApplicationSFPPluggable I/O ApplicationsSFPHeat Sink CompatibleYesCircuit ApplicationSignalPackaging MethodBox & TrayOtherInternal/External EMI SpringsProduct ComplianceInternal/External EMI SpringsProduct ComplianceCompliantFU ROHS Directive 2010/SJ/FCCompliantChina RoHS 2 Directive MIIT Order No 32, 2016No Restricted Materials Above ThresholdLU RLACH Regulation (LC) No. 1907/2006Carrent Confiante List: JAN 2025 (247) Cardidate List Declared Against: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247)Halogen ContentLow Halogen - Br, CJ, F, I < 900 ppringer	Termination Post & Tail Length	3 mm[.118 in]
Pinensions PCB Thickness (Recommended) PCB Thickness (Recommended) PCB Thickness (Recommended) Poperation 225 mm(.089 in) Usage Conditions Poperation/Application Plugable I/O Applications Plugable I/O	Housing Features	
PCB Thickness (Recommended) 2.25 mm[089 in] Usage Conditions 55 - 85 °C] 67 - 185 °F] Operating Temperature Range 55 - 85 °C] 67 - 185 °F] Operation/Application STP Plugable I/O Applications Signal Text Sink Compatible Yes Circuit Application Signal Packaging Features Signal Packaging Method Box & Tray Other Internal/External EMI Springs Included Lightpipe No EMI Containment Feature Type Miternal EMI Springs Poduct Compliance Compliant For Compliance documentation, wit the product page on TEcom> Compliant EU RO IS Directive 2000/S3/EG Compliant China ROHS 2 Directive MIIT Order No 32, 2016 No Restricted Materials Above Threshold LU RACIT Regulation (EC) No. 1907/2006 Current ECI IA Candidate List: JAN 2025	Cage Material	Copper Alloy
Bage Conditions Operating Temperature Range S 85 °C(67 185 °F) Operation/Application Pluggable I/O Application Pluggable	Dimensions	
Operating Temperature Range-55 – 85 °C[-67 – 185 °F]Operation/ApplicationSFPPluggable I/O ApplicationsSFPHeat Sink CompatibleYesCircuit ApplicationSignalPackaging FeaturesSo & TrayPackaging MethodBox & TrayOtherIncluded LightpipeIncluded LightpipeNoFMI Containment Feature TypeInternal/External EMI SpringsFor complianceCompliantEU RoHS Directive 2000/53/ECCompliantChina RoHS 2 Directive MIIT Order No 32, 2016No Restricted Materials Above ThresholdEU REACH Regulation (EC) No. 1907/2006Current ECHA Candidate List: JAN 2025 (247) Does not contain REACH SyrIngHalogen ContentLow Halogen - Br, CI, F, I < 900 ppm per homogenous material. Also BFR/CTR/PCC	PCB Thickness (Recommended)	2.25 mm[.089 in]
CPeration/ApplicationPluggable I/O ApplicationsSFPHeat Sink CompatibleYesCircuit ApplicationSignalPackaging FeaturesSignalPackaging MethodBox & TrayOtherInternal/External EMI SpringsIncluded LightpipeNoFMI Containment Feature TypeInternal/External EMI SpringsFOr compliance For compliance documentation, visit the product page on TE.com>EU ROHS Directive 2010/53/ECCompliantChina RoHS 2 Directive MIIT Order No 32, 2016No Restricted Materials Above ThresholdEU REACH Regulation (EC) No. 1907/2006Current ECIIA Candidate List: JAN 2025 CAT/ Does not contain REACH SVHCHalogen ContentIow Halogen Br, CJ, F, I < 900 ppm per homogenous material. Also BER/CFR/PVC	Usage Conditions	
Pluggable I/O ApplicationsSFPPluggable I/O ApplicationsSFPHeat Sink CompatibleYesCircuit ApplicationSignalPackaging FeaturesSo & TrayPackaging MethodBox & TrayOtherIncluded LightpipeIncluded LightpipeNoEMI Containment Feature TypeInternal/External EMI SpringsProduct ComplianceCompliantFOCULET V Directive 2011/65/EUCompliantEU RoHS Directive 2011/65/EUCompliantFU ELV Directive 2000/53/FCCompliantChina RoHS 2 Directive MIIT Order No 32, 2016No Restricted Materials Above ThresholdEU REACH Regulation (EC) No. 1907/2006Current ECHA Candidate List: JAN 2025 (247) Does not contain REACH SVHCHalogen ContentLow Halogen Br, CJ, F, I < 900 ppm per homogenous material. Also BER/CER/PCC	Operating Temperature Range	-55 – 85 °C[-67 – 185 °F]
Heat Sink CompatibleYesCircuit ApplicationSignalPackaging FeaturesBox & TrayPackaging MethodBox & TrayOtherNoIncluded LightpipeNoFMI Containment Feature TypeInternal/External EMI SpringsProduct ComplianceCompliantFor compliance documentation, visit the product page on TEcom>CompliantEU ROHS Directive 2011/65/EUCompliantChina RoHS 2 Directive MIIT Order No 32, 2016No Restricted Materials Above ThresholdEU REACH Regulation (EC) No. 1907/2006Current ECHA Candidate List: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) Does not contain REACH SVHCHalogen ContentLow Halogen -Br, CI, F, I < 900 ppm per homogenous material. Also BFR/CFR/PKPC	Operation/Application	
Circuit ApplicationSignalPackaging FeaturesSox & TrayPackaging MethodBox & TrayOtherIncluded LightpipeNoEMI Containment Feature TypeInternal/External EMI SpringsProduct Compliance For compliance documentation, visit the product page on TE.com>CompliantEU RoHS Directive 2011/65/EUCompliantEU ELV Directive 2000/53/ECCompliantChina RoHS 2 Directive MIIT Order No 32, 2016No Restricted Materials Above ThresholdEU REACH Regulation (EC) No. 1907/2006Current ECHA Candidate List: JAN 2025 (247) Candidate List: Declared Against: JAN 2025 (247) Const on to contain REACH SVHCHalogen ContentLow Halogen -Br, CJ, F, I < 900 ppm per homogenous material. Also BFR/CFR/PCFR	Pluggable I/O Applications	SFP
Packaging Features Packaging Method Box & Tray Other Included Lightpipe No Mo Compliance For compliance For compliance documentation, visit the product page on TE.com For Compliance documentation, visit the product page	Heat Sink Compatible	Yes
Packaging MethodBox & TrayPackaging MethodBox & TrayOtherNoIncluded LightpipeNoEMI Containment Feature TypeInternal/External EMI SpringsProduct Compliance For compliance documentation, visit the product page on TE.com>CompliantEU RoHS Directive 2011/65/EUCompliantEU RoHS Directive 2000/53/ECCompliantChina RoHS 2 Directive MIIT Order No 32, 2016No Restricted Materials Above ThresholdEU REACH Regulation (EC) No. 1907/2006Qurrent ECHA Candidate List: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) Does not contain REACH SVHCHalogen ContentLow Halogen - Br, CJ, F, I < 900 ppm per homogenous material. Also BER/CFR/PVC	Circuit Application	Signal
Other No Included Lightpipe No EMI Containment Feature Type Internal/External EMI Springs Product Compliance Support For compliance documentation, visit the product page on TE.com> Compliant EU RoHS Directive 2011/65/EU Compliant EU RoHS Directive 2000/53/EC Compliant China RoHS 2 Directive MIIT Order No 32, 2016 No Restricted Materials Above Threshold EU REACH Regulation (EC) No. 1907/2006 Current ECHA Candidate List: JAN 2025 (247) Candidate List: DAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) Does not contain REACH SVHC Halogen Content Low Halogen - Br, CI, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC	Packaging Features	
Included LightpipeNoEMI Containment Feature TypeInternal/External EMI SpringsProduct ComplianceSubsection (State State	Packaging Method	Box & Tray
EMI Containment Feature TypeInternal/External EMI SpringsProduct Compliance For compliance documentation, visit the product page on TE.com>CompliantEU ROHS Directive 2011/65/EUCompliantEU ROHS Directive 2000/53/ECCompliantChina RoHS 2 Directive MIIT Order No 32, 2016No Restricted Materials Above ThresholdEU REACH Regulation (EC) No. 1907/2006Current ECHA Candidate List: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) Does not contain REACH SVHCHalogen ContentLow Halogen - Br, CJ, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC	Other	
Product ComplianceFor compliance documentation, visit the product page on TE.com>EU RoHS Directive 2011/65/EUCompliantEU ELV Directive 2000/53/ECCompliantChina RoHS 2 Directive MIIT Order No 32, 2016No Restricted Materials Above ThresholdEU REACH Regulation (EC) No. 1907/2006Current ECHA Candidate List: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) Does not contain REACH SVHCHalogen ContentLow Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC	Included Lightpipe	No
For compliance documentation, visit the product page on TE.com>EU ROHS Directive 2011/65/EUCompliantEU ELV Directive 2000/53/ECCompliantChina RoHS 2 Directive MIIT Order No 32, 2016No Restricted Materials Above ThresholdEU REACH Regulation (EC) No. 1907/2006Current ECHA Candidate List: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) Does not contain REACH SVHCHalogen ContentLow Halogen Br, CI, F, I < 900 ppm pr homogenous material. Also BFR/CFR/PVC	EMI Containment Feature Type	Internal/External EMI Springs
China RoHS 2 Directive MIIT Order No 32, 2016No Restricted Materials Above ThresholdEU REACH Regulation (EC) No. 1907/2006Current ECHA Candidate List: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) Does not contain REACH SVHCHalogen ContentLow Halogen - Br, CI, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC	Product Compliance For compliance documentation, visit the product page on TE.com> EU RoHS Directive 2011/65/EU	Compliant
EU REACH Regulation (EC) No. 1907/2006Current ECHA Candidate List: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) Does not contain REACH SVHCHalogen ContentLow Halogen - Br, CI, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC	EU ELV Directive 2000/53/EC	Compliant
(247) Candidate List Declared Against: JAN 2025 (247) Does not contain REACH SVHCHalogen ContentLow Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC	China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
homogenous material. Also BFR/CFR/PVC	EU REACH Regulation (EC) No. 1907/2006	(247) Candidate List Declared Against: JAN 2025 (247)
	Halogen Content	homogenous material. Also BFR/CFR/PVC

Packaging Method	Box & Tray
Other	
Included Lightpipe	No
EMI Containment Feature Type	Internal/External EMI Springs
Product Compliance For compliance documentation, visit the product page on TE.com>	
EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free

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SFP, Cage Assembly, Signal, Operating Temperature Range -55 – 85 °C [-67 – 185 °F], Data Rate (Max) 4 Gb/s, 20 Position, 1 Ports



Solder Process Capability

Not applicable for solder process capability

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: https://echa.europa.eu/guidance-documents/guidance-onreach

Compatible Parts



Also in the Series DWDM



Customers Also Bought



Documents

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1367645-5

SFP, Cage Assembly, Signal, Operating Temperature Range -55 – 85 °C [-67 – 185 °F], Data Rate (Max) 4 Gb/s, 20 Position, 1 Ports



Product Drawings DWDM Kit Assy, SAN (6.5) English **CAD** Files 3D PDF 3D Customer View Model ENG_CVM_CVM_1367645-5_D.2d_dxf.zip English Customer View Model ENG_CVM_CVM_1367645-5_D.3d_igs.zip English Customer View Model ENG_CVM_CVM_1367645-5_D.3d_stp.zip English By downloading the CAD file I accept and agree to the **Terms and Conditions** of use.

Product Specifications Product Specification

English