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B81510F16-27S1 [V001]

RECP ASSY

DEUTSCH

TE Internal #: **YB81510F1627S1V001**
TE Internal Description: **RECP ASSY**
Mil-Spec: **M81511/51AE02S1**

Product Type : **Connector**
Connector System : **Wire-to-Wire**
Number of Positions : **27**
Sealable : **Yes**
Connector & Contact Terminates To : **Wire & Cable**

Digital Datasheet

Compatible Parts & Tooling

We are here to help!
Get in touch with our product experts.

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Feedback

Documents | Features | Product Compliance

Product Drawings

RECP ASSY

RECP ASSY English

Datasheets & Catalog Pages

DEUTSCH MIL-DTL-38999 CIRCULAR CONNECTORS

ENG_DS_1-1773922-9_deutsch38999_0819.pdf English

Product Environmental Compliance

REACH Substance Communication Document

ENG_PC_RSCD_Lead_1.pdf English

Please review product documents or contact us for the latest agency approval information. Please Note: Use the Product Drawing for all design activity.

Product Type Features

Assembly Type : **Electrical Connector**
Product Type : **Connector**
Connector System : **Wire-to-Wire**
Sealable : **Yes**
Connector & Contact Terminates To : **Wire & Cable**
Shell Size : **16**
Shielded : **Yes**
Connector Style : **Receptacle**
Shell Type : **Square Flange Receptacle**

Configuration Features	Number of Positions : **27** Number of Power Positions : **27** Number of Signal Positions : **27** Preloaded : **No** Keying : **Keyway Polarization 1** Factory Installed Backshell : **No** Keying & Polarized Position Locations : **1**
Electrical Characteristics	Operating Voltage (VAC): **600** Voltage (Vrms): **1800** Operating Voltage (VDC): **850**
Body Features	Feedthrough Type : **No** Entry Style : **Rear Insertion** Shell Plating Material : **Nickel** Shell Material : **Aluminum** Insulation Material : **Hard Dielectric/Silicone** Hermetically Sealed : **No** Fluid Type : **Coolanol 25, Isopropyl Alcohol, M2-V, MIL-DTL-5624 (JP-5), MIL-PRF-23699, MIL-PRF-5606, MIL-PRF-7808, Methyl Alcohol** Environmental Protection Type : **Elastomer Sealed** O-Ring Material : **Silicone** Environmental Protection : **Yes** Peripheral Seal Material : **Silicone**
Contact Features	Contact Current Rating (Max) (A): **7.5** Reverse Gender : **No** Contact Layout Arrangement : **E02 (16-27)** Contact Type : **Socket** Contact Quantity (Size 20) : **27**
Mechanical Attachment	Panel Mount Feature Type : **Square Flange** Panel Mount Feature : **With** Connector Mounting Type : **Cable Mount (Free-Hanging)** Polarization Code : **1** Mating Alignment Type : **Keyed** Mating Retention : **Bayonet** Flange : **Square Flange** Mating Retention Type : **Bayonet**
Housing Features	Alignment Keyed : **Clocking**
Dimensions	Assembly Length : **30.15 mm [1.187 in]** Wire Size (AWG): **12 – 14** Wire Size (mm^2): **.2 – .52** Accepts Wire Insulation Diameter Range : **1.02 – 1.88 mm [.04 – .074 in]**
Usage Conditions	Operating Temperature Range : **-65 – 200 °C [-85 – 392 °F]** Fluid Resistance : **Yes**
Operation/Application	Circuit Application : **Power & Signal** Durability Rating (Cycles): **500**

Packaging Features	Packaging Quantity : **1**
Other	Position Locations Omitted : **All**
EU RoHS Directive 2011/65/EU	Exemptions: 6(c) - Pb-Alloy in Copper

This declaration covers EU Directive 2011/65/EU incl. Delegated Directive 2015/863/EU. The restrictions under 2015/863/EU apply as of 22 July 2021 for EEE categories 8 (medical devices) and 9 (monitoring and control equipment).

EU ELV Directive 2000/53/EC	Exemptions: 3 - Lead in copper alloy containing up to 4% lead by weight.

China RoHS 2 Directive MIIT Order No 32, 2016

部件名称 (Component Name) YB81510F1627S1V001	有害物质 (Hazardous Substance)					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr6)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
连接器系统 (Connector Systems)	X	O	O	O	O	O

本表格依据SJ/T 11364标准的规定编制。This table is compiled according to SJ/T 11364 standard.

O: 表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572标准规定的限量要求以下。
Indicates that the concentration of the hazardous substance in all homogeneous materials of the part is below the relevant threshold of the GB/T 26572 standard.

X: 表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T 26572标准规定的限量要求。
Indicates that the concentration of the hazardous substance in at least one homogeneous material of the part is above the relevant threshold of the GB/T 26572 standard.

电子电气产品的环保使用期限依据SJ/T 11388标准的规定确定。
The EFUP value of EEP is defined according to SJ/T 11388 standard.

EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: **JUL 2019 (201)** Candidate List Declared Against: **JAN 2019 (197)** Pb (1.2% in Contact Lead-Copper Alloy)
Halogen Content	
Solder Process Capability	Not reviewed for solder process capability
Statement of Compliance	Statement of Compliance pdf
Compliance	There may be Environmental Compliance related

Documents	documents on the DOCUMENTATION Tab

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-on-reach