



AMP SMA

TE Internal #: 1051650-1

TE Internal Description: 2031 5005 00

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Connectors > RF Coax Connectors > RF Connectors



RF Interface: SMA

RF Connector Style: Plug

RF Connector Mated Outer Diameter (Approximate): 6.35 mm [.25 in]

Impedance: 50 Ω

Compatible With RF Cable Type: RG 142

Features

Product Type Features

| | |
|-----------------------------------|--------------------|
| Connector Product Type | Connector Assembly |
| Connector Seal Type | Gasket |
| RF Interface | SMA |
| RF Connector Style | Plug |
| Compatible With RF Cable Type | RG 142 |
| Connector System | Cable-to-Cable |
| Sealable | Yes |
| Connector & Contact Terminates To | Wire & Cable |

Configuration Features

| | |
|----------------------------|---|
| Number of Positions | 1 |
| Number of Coaxial Contacts | 1 |

Electrical Characteristics

| | |
|-----------|------|
| Impedance | 50 Ω |
|-----------|------|

Body Features

| | |
|-----------------------------|----------|
| Cable Connector Orientation | Straight |
|-----------------------------|----------|

| | |
|---------------|-----------------|
| Body Material | Stainless Steel |
|---------------|-----------------|

| | |
|-----------------------|------|
| Body Plating Material | Gold |
|-----------------------|------|

Contact Features

| | |
|---|----------------|
| RF Connector Center Contact Underplating Material | Copper, Nickel |
|---|----------------|

| | |
|------------------------------------|----------------|
| RF Connector Contact Configuration | Not Captivated |
|------------------------------------|----------------|

| | |
|------------|-----|
| Crimp Type | Hex |
|------------|-----|

| | |
|------------------|--------|
| Ferrule Material | Copper |
|------------------|--------|

| | |
|--|------|
| RF Connector Center Contact Plating Material | Gold |
|--|------|

| | |
|--------------------------------------|------------------|
| RF Connector Center Contact Material | Beryllium Copper |
|--------------------------------------|------------------|

Termination Features

| | |
|------------------------------------|-------|
| Termination Method to Wire & Cable | Crimp |
|------------------------------------|-------|

Mechanical Attachment

| | |
|---------------------------------|----------|
| RF Connector Coupling Mechanism | Threaded |
|---------------------------------|----------|

| | |
|-------------------------|----------------------------|
| Connector Mounting Type | Cable Mount (Free-Hanging) |
|-------------------------|----------------------------|

| | |
|-------------------------------|------------|
| RF Contact Captivation Method | Mechanical |
|-------------------------------|------------|

| | |
|--------|---------|
| Detent | Without |
|--------|---------|

Dimensions

| | |
|----------------|--------------------|
| Product Length | 30.15 mm[1.187 in] |
|----------------|--------------------|

| | |
|---|-----------------|
| RF Connector Mated Outer Diameter (Approximate) | 6.35 mm[.25 in] |
|---|-----------------|

Usage Conditions

| | |
|-----------------------------|----------------------------|
| Operating Temperature Range | -65 – 165 °C[-85 – 329 °F] |
|-----------------------------|----------------------------|

Operation/Application

| | |
|---------------------|----------|
| Operating Frequency | 12.4 GHz |
|---------------------|----------|

Packaging Features

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|------------------|-----|
| Packaging Method | Bag |
|------------------|-----|

Other

| | |
|-------------------------------|------------------|
| Coupling Nut Plating Material | Gold over Nickel |
|-------------------------------|------------------|

| | |
|----------------------------|-----------------|
| Coupling Nut Base Material | Stainless Steel |
|----------------------------|-----------------|

| | |
|---------------------|---------------|
| Additional Features | Shrink Tubing |
|---------------------|---------------|

| | |
|---------------------|------------------|
| Dielectric Material | TFE Fluorocarbon |
|---------------------|------------------|

Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

| | |
|---|---|
| EU RoHS Directive 2011/65/EU | Compliant with Exemptions |
| EU ELV Directive 2000/53/EC | Compliant with Exemptions |
| China RoHS 2 Directive MIIT Order No 32, 2016 | Restricted Materials Above Threshold |
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JUNE 2022 (224) Candidate List Declared Against: JAN 2022 (223) SVHC > Threshold: Pb (3.7% in Component Part) Article Safe Usage Statements: Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location. |
| Halogen Content | BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources. |
| 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-on-reach>

Also in the Series | AMP SMA



Battery Holders(1)



Between Series Adapters(1)



Coax Terminators(1)



In-Series Adapters(11)



Rack & Panel Ferrules & Inserts(1)



RF Cable Assemblies(2)



RF Connector Hardware(2)



RF Connector Launchers(8)



RF Connector Shrouds(3)



RF Connectors(297)

Documents

Product Drawings

2031 5005 00

English

CAD Files

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_1051650-1_B.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1051650-1_B.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1051650-1_B.3d_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

SMA Connectors

English

Instruction Sheets

Instruction Sheet (U.S.)

English

OSM Straight Cable Plug Crimp Attachment 1311063-1, 1051650-1, and 1051651-1

English

