

SMA Male to N Male Adapter
RF Connector Technical Data Sheet
S-021-TGN (18GHz)

Configuration

- SMA Male Connectr 1
- N Male Connectr 2
- 50 Ohms

Features

- Max VSWR of 1.3 : 1 up to 18 GHz
- SMA Interface compliant with MIL-STD-348A
- N Interface compliant with MIL-STD-348A

Applications

- General Purpose Test

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------------|---------|---------|---------|-------|
| Frequency Range | DC | | 18 | GHz |
| VSWR | | | 1.3 : 1 | |
| Operating Voltagr(AC) | | | 1,000 | Vrms |
| Inner Conductor DC Resistance | | | 2 | mOhms |
| Outer Conductor DC Resistance | | | 0.5 | mOhms |
| Insertion Resistance | 5,000 | | | mOhms |

Mechanical Specifications
Size

| | | |
|--------|------|------|
| Length | [mm] | 32.8 |
| Width | [mm] | 20.0 |
| Height | [mm] | 20.0 |
| Weight | [g] | 56.5 |



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Weight

| Description | Connector 1 | Connector2 |
|----------------------------|---------------|--------------|
| Type | SMA Male | N Male |
| Polarity | Standard | Standard |
| Interface Specification | MIL-STD-348A | MIL-STD-348A |
| | MIL-C-39012 | MIL-C-39012 |
| Mating Cycles | 500 | 500 |
| Hex Size | 8mm | - |
| Mating Torque | 3 to 5 in-lbs | - |
| Coupling Proof Torque, Min | 5 in-lbs | - |

Material Specifications

| Description | Connector 1 | | Connector2 | |
|-----------------|-------------|---------|------------|---------|
| | Material | Plating | Material | Plating |
| Type | SMA Male | - | N Male | - |
| Contact | Brass | Gold | Brass | Gold |
| Insulation | PTFE | - | PTFE | - |
| Outer Conductor | - | - | Brass | Nickel |
| Body | Brass | Nickel | Brass | Nickel |
| Gasket | - | - | Silicone | - |
| Coupling Nut | Brass | Nickel | Brass | Nickel |

Environmental Specifications

Temperature

Operating Range -60 to +165 deg C

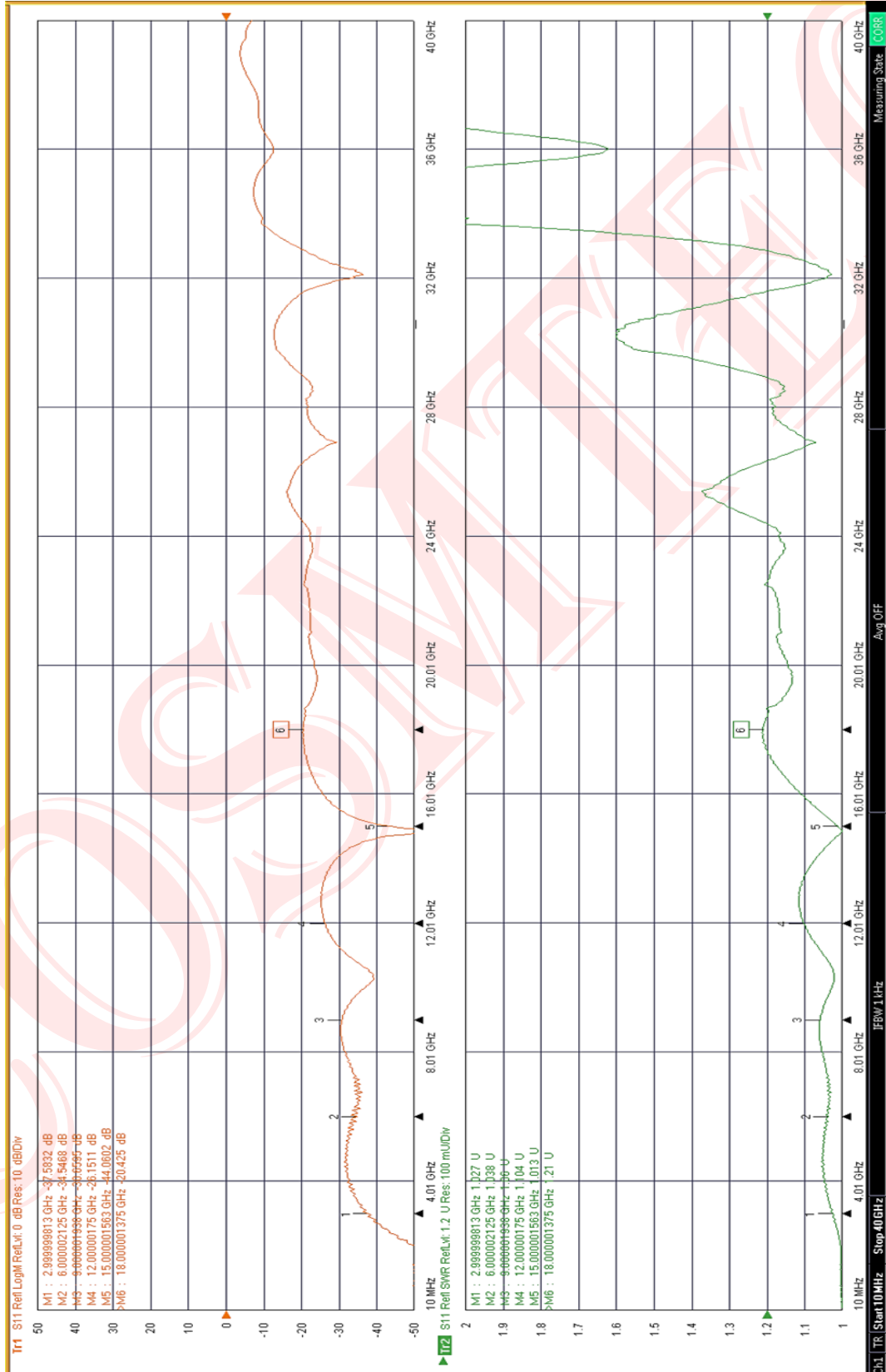
Compliance Certifications

- RoHS Compliant Yes

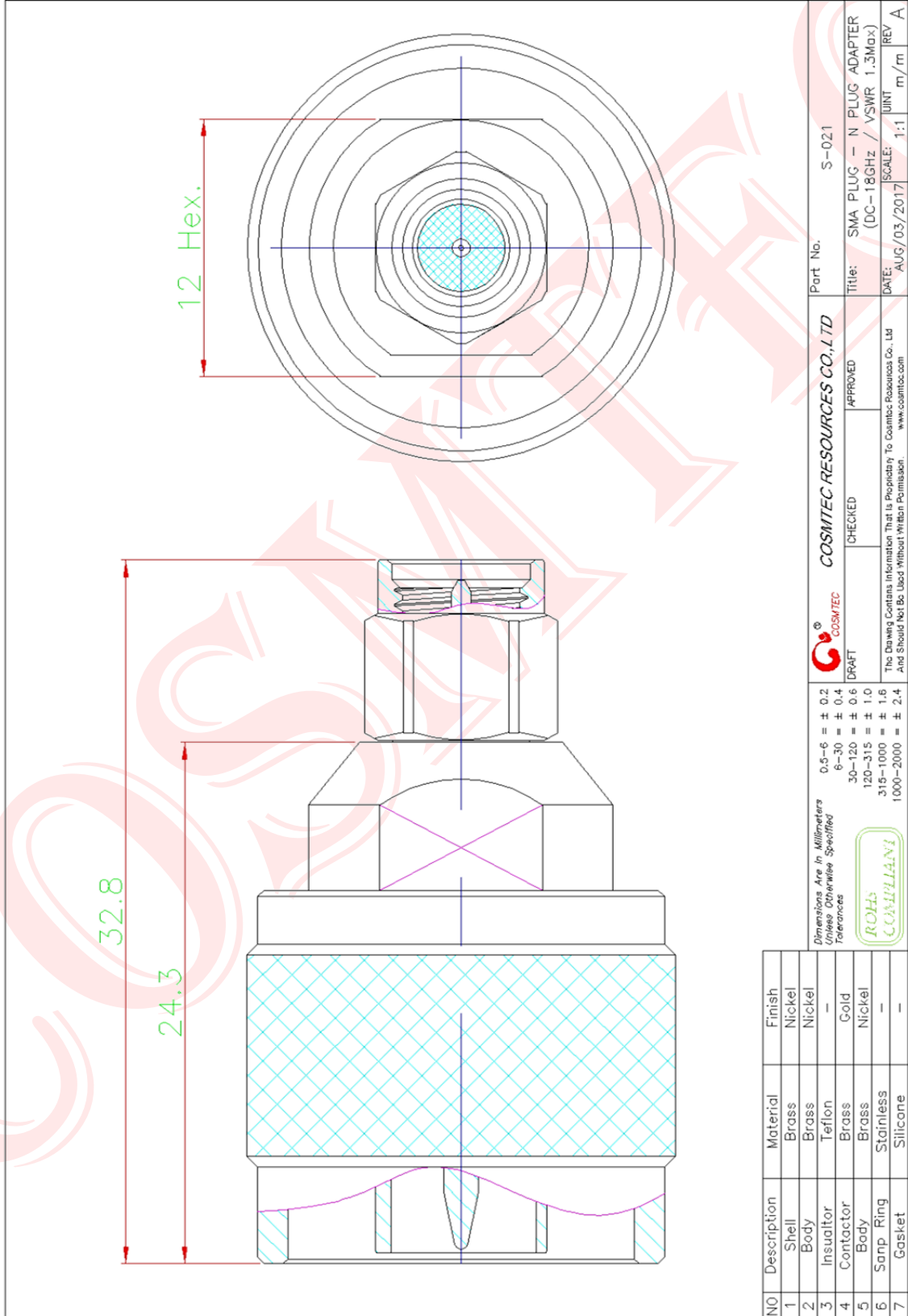
Plotted and Other Data

Notes: Do Turn Male (Plug) Connector's Nut (Shell) Only To Tighten

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| NO | Description | Material | Finish |
|----|-------------|-----------|--------|
| 1 | Shell | Brass | Nickel |
| 2 | Body | Brass | Nickel |
| 3 | Insulator | Teflon | — |
| 4 | Contactors | Brass | Gold |
| 5 | Body | Brass | Nickel |
| 6 | Seal Ring | Stainless | — |
| 7 | Gasket | Silicone | — |

| | | | |
|--|---------|----------|---|
|  COSMTEC COSMTEC RESOURCES CO., LTD | | Part No. | S-021 |
| | | Title: | SMA PLUG — N PLUG ADAPTER (DC-18GHz / VSWR 1.3Max) |
| APPROVED | CHECKED | DATE: | AUG/03/2017 |
| <small>The Drawing Contains Information That is Proprietary To Cosmtec Resources Co., Ltd And Should Not Be Used Without Written Permission. www.cosmtcc.com</small> | | SCALE: | 1:1 |
| <small>Dimensions Are in Millimeters Unless Otherwise Specified</small> | | UNIT | m/m |
|  | | REV | A |