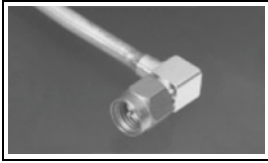


1051157-1 Product Details

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1051157-1

TE Internal Number: 1051157-1

 Active

SMA/QMA RF Connectors

 Always EU RoHS/ELV Compliant (Statement of Compliance)

Product Highlights:

- Applies To Coaxial Cable
- Connector - RF
- RF Connector Type = SMA
- Plug
- Without Snap-Lock

[View all Features](#)

Quick Links

- ▶ [Pricing & Availability](#)
- ▶ [Search for Tooling](#)
- ▶ [Product Feature Selector](#)
- ▶ [Contact Us About This Product](#)

[Add to My Part List](#) [Request Sample](#) [Find Similar Products](#) [Buy Product](#)

Documentation & Additional Information

Product Drawings:

- [OSM RIGHT ANGLE CABLE PLUG-DIRECT SOLDER ATTACHMENT](#) (PDF, English)

Catalog Pages/Data Sheets:

- [SMA Connectors](#) (PDF, English)

Product Specifications:

- None Available

Application Specifications:

- None Available

Instruction Sheets:

- [SMA Right-Angle Cable Plugs](#) (PDF, English)

CAD Files:

- None Available

Related Products:

- [Tooling](#)

[List all Documents](#)

Product Features (Please use the Product Drawing for all design activity)

Product Type Features:

- [Product Type](#) = Connector - RF
- RF Connector Type = SMA
- [Gender](#) = Plug
- [Retractable Collar](#) = Without
- Captivated Contacts = With
- Dielectric Material = TFE Fluorocarbon
- Coupling Nut Material = Stainless Steel
- Coupling Nut Finish = Passivated

Mechanical Attachment:

- [Panel Mount Retention](#) = Without
- [Safety Wire Holes](#) = Without

Electrical Characteristics:

- Frequency = DC - 12 GHz
- Insulation Resistance (MΩ) = 5,000

Termination Features:

- [Coaxial Cable Termination Type](#) = Solder

Dimensions:

- [Length \(mm \[in\]\)](#) = 17.15 [0.675]

Body Features:

- [Body Style](#) = Right Angle
- [Body Material](#) = Stainless Steel
- [Body Finish](#) = Gold
- Gasket Material = Silicone Rubber
- Retaining Ring Material = Beryllium Copper

Contact Features:

- [Center Contact](#) = With
- Center Contact Material = Beryllium Copper
- Center Contact Plating = Gold

Configuration Features:

- Snap-Lock = Without
- [Coaxial Cable Type \(RG/U or Mfg.\)](#) = 405 Semi-Rigid/2.16 [.085]
- Captivation Method = Epoxy

Industry Standards:

- Government/Industry Qualification = No
- [RoHS/ELV Compliance](#) = RoHS compliant, ELV compliant
- [Lead Free Solder Processes](#) = Not relevant for lead free process
- RoHS/ELV Compliance History = Always was RoHS compliant

Conditions for Usage:

- [Applies To](#) = Coaxial Cable

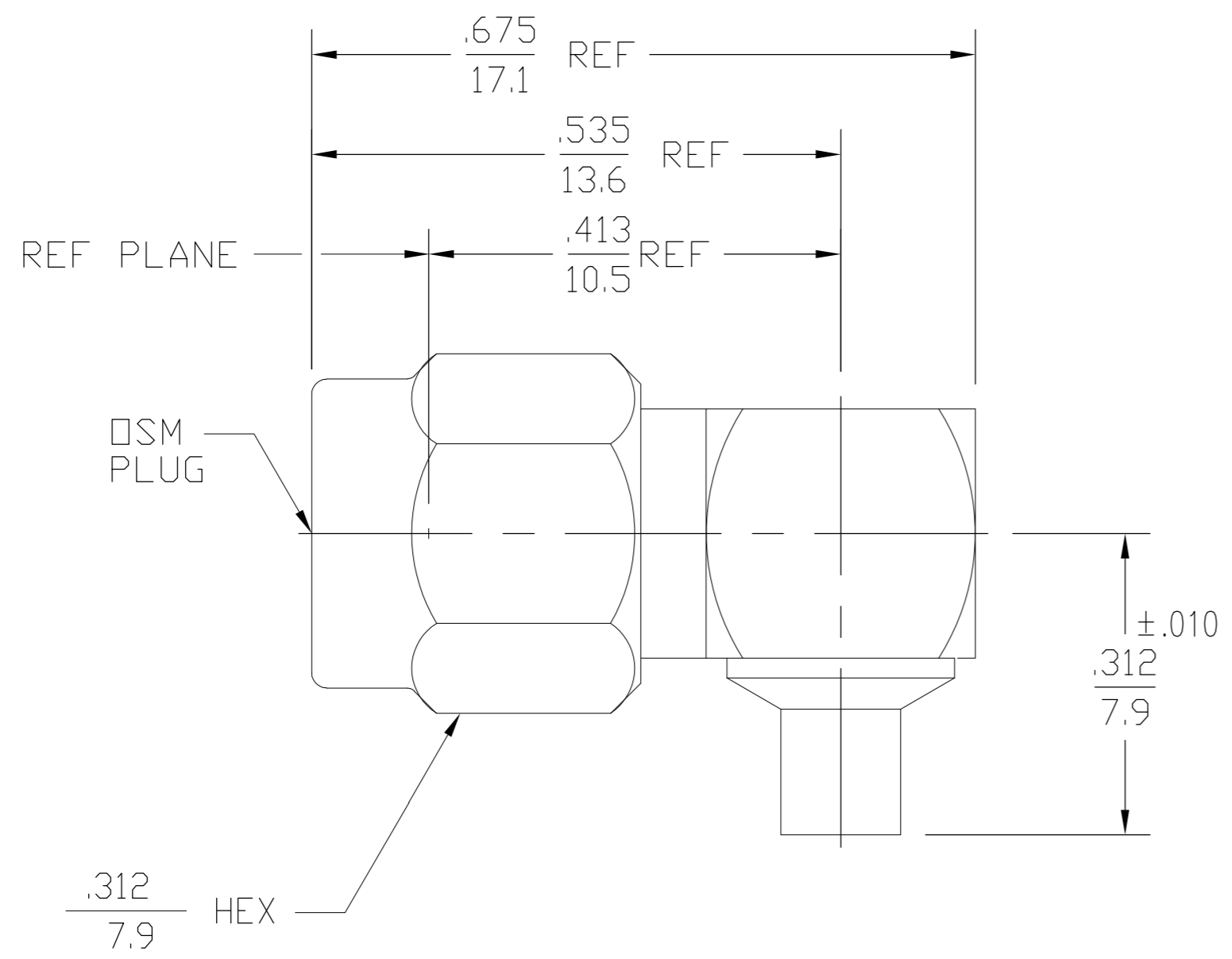
Other:

- Brand = AMP

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DESIGNED FOR USE WITH
 .085 S/R CABLE
 CABLE ENTRY DIAMETER
 MINIMUM
 HOUSING .089
 CONTACT .037

LOC	DIST	REVISIONS			
P	LTR	DESCRIPTION	DATE	DWN	APVD
AJ	00	B	REV PER ECO 07-004710	2/27/2007	DW KW



1051157-1
 PART
 NUMBER

ELECTRICAL	MECHANICAL	ENVIRONMENTAL
Nominal Impedance (Ohms) 50	Interface Dimensions MIL-STD-348, Fig. 310-1	TEMPERATURE RATING -65 TO 125°C
Frequency Range (GHz) DC to 12	Recommended Mating Torque 7-10 IN-LBS	Vibration MIL-STD-202, Method 204, Condition D
Volt Rating (VRMS MAX) @ Sea Level 335	Mating Characteristics:	Shock MIL-STD-202, Method 213, Condition I
VSWR 1.10 + .01(f)	Insertion (MAX Lbs) N/A	Thermal Shock MIL-STD-202, Method 107, Condition B, EXCEPT HIGH TEMP +115°C
Insertion Loss (dB MAX) .05 √f(GHz)	Withdrawal (MIN Oz) N/A	Moisture Resistance MIL-STD-202, Method 106,
RF Leakage (dB MIN) -60	Force to Engage and Disengage (In/Lbs MAX) 2	Corrosion - MIL-STD-202, Method 101, Condition B, 5% salt spray
Corona, 70,000 Ft (VRMS MIN) 250	Center Contact Captivation	
Dielectric Withstanding Voltage (VRMS MIN) @ Sea Level 1000	Axial (Lbs) 6.0	
Contact Resistance (Milliohms MAX)	Radial (In/Oz) 4.0	
Center Contact 3.0	Cable Retention	
Outer Contact 2.0	Axial Force (Lbs) 30	
Cable to Housing 0.5	Torque (In/Oz) 16	
RF High Potential @ Sea Level (VRMS MIN @ 5 MHz) 670	Weight (Grams) 3.9	
I.R.(Megohms MIN) 5000		

.XXX = in
 XX.X = mm

COMPONENT	MATERIAL	FINISH
HOUSING CAP	STAINLESS STEEL PER ASTM-A484 AND ASTM-A582, TYPE 303	GOLD PLATE PER MIL-G-45204
COUPLING NUT	STAINLESS STEEL PER ASTM-A484 AND ASTM-A582, TYPE 303	PASSIVATE PER QQ-P-35
DIELECTRIC	TFE FLUOROCARBON PER ASTM-D-1457	N/A
CENTER CONTACT	BERYLLIUM COPPER PER ASTM-B-196 OR ASTM-B-197 ALLOY C17300, CONDITION H, OR BRASS PER ASTM-B-16	GOLD PLATE PER MIL-G-45204
RETAINING RING	BERYLLIUM COPPER PER ASTM B 194, ALLOY C17200, CONDITION H	N/A
GASKET	SILICONE RUBBER PER ZZ-R-765	N/A

1051157

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN RPM	4/14/72	Tyco Electronics Corporation Harrisburg, PA 17105-3608
CHK BWC	4/17/72	
APVD PRB	4/17/72	
PRODUCT SPEC		
APPLICATION SPEC		NAME OSM RIGHT ANGLE CABLE PLUG-DIRECT SOLDER ATTACHMENT
WEIGHT		SIZE A2 CAGE CODE 00779 DRAWING NO C=1051157 RESTRICTED TO
CUSTOMER DRAWING	SCALE 5:1 SHEET 1 of 1 REV B	