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COMPONENT

MATERIAL

FINISH

—

COUPLING NUT

STAINLESS STEEL PER
ASTM-A-484 OR ASTM-A-582
TYPE 303

PASSIVATED PER
ASTM-A-380
—

—

DIELECTRIC

PTFE FLUORCARBON
PER ASTM-D-1457

—
—

—

CENTER CONTACT

BERYLLIUM COPPER PER
ASTM-B-194
ALLOY C17200, CONDITION H

GOLD PLATED PER
ASTM-B-488
—

—

HOUSING
CAP

STAINLESS STEEL PER
ASTM-A-484 OR ASTM-A-582
TYPE 303

GOLD PLATED PER
ASTM-B-488
—

—

GASKET

SILICONE RUBBER
PER ZZ-R-765

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—

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RETAINING RING

BERYLLIUM COPPER PER
ASTM-B-194
ALLOY C17200, CONDITION H

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—

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—

ENVIRONMENTAL

TEMPERATURE RATING: -65°C TO +165°C

VIBRATION: MIL-STD-202, METHOD 204, CONDITION D

SHOCK: MIL-STD-202, METHOD 213, CONDITION 1

MOISTURE RESISTANCE: MIL-STD-202, METHOD 106

CORROSION: MIL-STD-202, METHOD 101, CONDITION B. 5% SALT SPRAY

THERMAL SHOCK: MIL-STD-202, METHOD 107, CONDITION B
EXCEPT HIGH TEMP 115°C

MECHANICAL

INTERFACE DIMENSIONS: MIL-STD-348A FIG. 310.1

RECOMMENDED MATING TORQUE: 7-10 IN-LBS

FORCE TO ENGAGE & DISENGAGE (IN-LBS MAX:) 2.0

WEIGHT (GRAMS): TBD

MATING CHARACTERISTICS: INSERTION (MAX LBS) N/A
WITHDRAWAL (MIN OZ): N/A

CABLE RETENTION: AXIAL FORCE (LBS) 60 MIN
TORQUE (IN-OZ): 55.0

CENTER CONTACT CAPTIVATION: AXIAL (LBS): 6.0
RADIAL (IN-OZ): N/A

ELECTRICAL

NORMAL IMPEDANCE (OHMS): 50

FREQUENCY RANGE (GHz): DC TO 12.4

VOLT RATING @ SEA LEVEL (VRMS MAX): 500

VSWR: 1.10+0.01f(GHz)

INSERTION LOSS: (dB MAX): .05 $\sqrt{f(\text{GHz})}$

RF LEAKAGE (dB MIN): -90 @ 2-3 GHz

CORONA 70,000 FT (VRMS MIN): 375

DIELECTRIC WITHSTANDING VOLTAGE (VRMS MIN) AT SEA LEVEL: 1500

I.R. (MEGOHMS MIN): 5,000

RF HIGH POTENTIAL AT SEA LEVEL (VRMS MIN @ 5 MHz): 1000

CONTACT RESISTANCE (MILLIOHMS MAX):
CENTER CONTACT: 4.0
OUTER CONTACT: 2.0
CABLE TO HOUSING: 0.5

LOC

DIST

REVISIONS

DF

X0

P

LTR

DESCRIPTION

DATE

DWN

APVD

O

RELEASED

11-02

JMK

JL

AS SHIPPED TO CUSTOMER

CAP

HOUSING

CABLE
(CUSTOMER SUPPLIED)

COUPLING NUT
.312 [7.92] HEX

CENTER CONTACT
DIELECTRIC
GASKET
RETAINING RING

ASSEMBLED VIEW

DESIGNED TO USE
RG-402/U OR EQUIVALENT
CABLE ENTRY
DIAMETER MIN

HOUSING: .145 [3.68]

CONTACT: .037 [0.94]

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THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:
INCHES [mm]

TOLERANCES UNLESS
OTHERWISE SPECIFIED:
0 PLC ± -
1 PLC ± -
2 PLC ± -
3 PLC ± .005 [0.13]
4 PLC ± -
ANGLES ± -

MATERIAL
SEE TABLE

FINISH
SEE TABLE

DWN

J. KAISER

10/07/02

CHK

J.LIPPERT

11-20-02

APVD

J.LIPPERT

11-20-02

PRODUCT SPEC

APPLICATION SPEC

408-4916

WEIGHT

TBD

CUSTOMER DRAWING

tyco

Electronics

Tyco Electronics Corporation

Harrisburg, PA 17105

NAME

SMA RIGHT ANGLE CABLE PLUG-DIRECT
SOLDER ATTACHMENT (M39012/80B3102) CAT B

SIZE

A2

CAGE CODE

00779

DRAWING NO

1051172

RESTRICTED TO

—

SCALE

5:1

SHEET

1

OF

1

REV

0

1051172-1

PART
NO.

AMP 1471-9 REV 31MAR2000

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