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19

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COMPONENT

MATERIAL

FINISH

HOUSING CLAMP NUT COUPLING NUT

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

PASSIVATED PER QQ-P-35

DIELECTRIC

PTFE FLUORCARBON PER ASTM-D-1457

-

CENTER CONTACT

BERYLLIUM COPPER PER ASTM-B-196 OR ASTM-B-197 ALLOY C17300, CONDITION H

GOLD PLATED PER ASTM-B-488

INNER SLEEVE

BRASS PER ASTM-B-16 1/2 HARD

GOLD PLATED PER ASTM-B-488

RETAINING RING

BERYLLIUM COPPER PER ASTM-B-196 OR ASTM-B-197 ALLOY C17300, CONDITION H

NICKEL PLATED PER QQ-N-290

"O"-RING GASKET

SILICONE RUBBER PER ZZ-R-765

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SHRINK TUBING

HEAT SHRINKABLE POLYOLEFIN COMPOUND PER MIL-I-23053/4

-

FERRULE

COPPER OR BRASS ALLOY ROCKWELL F65 MAX

GOLD PLATED PER ASTM-B-488

ENVIRONMENTAL

TEMPERATURE RATING: -65°C TO +125°C

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

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. 304.2

RECOMMENDED MATING TORQUE: N/A

FORCE TO ENGAGE & DISENGAGE (IN-LBS MAX: ) 6.0

WEIGHT (GRAMS): 15

MATING CHARACTERISTICS: INSERTION (MAX LBS): 2.0 WITHDRAWAL (MIN OZ): 2.0

CABLE RETENTION: AXIAL FORCE (LBS): 45 MIN TORQUE (IN-OZ): N/A

CENTER CONTACT CAPTIVATION: AXIAL (LBS): 6.0 RADIAL (IN-OZ): 4.0

ELECTRICAL

NORMAL IMPEDANCE (OHMS): 50

FREQUENCY RANGE (GHz): DC TO 18

VOLT RATING @ SEA LEVEL (VRMS MAX): 250

VSWR: 1.07+.007F (GHz)

INSERTION LOSS: (dB MAX): .04 √F (GHz)

RF LEAKAGE (dB MIN): -[90-F (GHz)]

CORONA 70,000 FT (VRMS MIN): 190

DIELECTRIC WITHSTANDING VOLTAGE (VRMS MIN) AT SEA LEVEL: 750

I.R. (MEGOHMS MIN): 5000

RF HIGH POTENTIAL AT SEA LEVEL (VRMS MIN @ 5 MHz): 500

CONTACT RESISTANCE (MILLIOHMS MAX): CENTER CONTACT: 1.5 OUTER CONTACT: 2.0 CABLE TO HOUSING: 0.5

LOC

DIST

REVISIONS

DF

X0

P

LTR

DESCRIPTION

DATE

DWN

APVD

0

RELEASED

10-01

CT

RG

SHRINK TUBING

.312 [7.92] HEX

∅.625 [15.88]

.562 [14.27] ACROSS FLATS

.812 [20.62] HEX

1.850 MAX [46.99] ASSEMBLED LENGTH WITH SHRINK TUBING

OSN PLUG SUB-ASSY

FERRULE

SHRINK TUBING REF

SLEEVE SUB-ASSY

"O"-RING

.671 [17.04]

.832 [21.13]

1.500 MAX [38.10]

DESIGNED TO USE WITH SF-142 CABLE CABLE ENTRY DIAMETER MIN

FERRULE: .216

SLEEVE: .121

CONTACT: .038

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DIMENSIONS: INCHES [mm]

0 PLC ±- 1 PLC ±- 2 PLC ±- 3 PLC ±.005 [0.13] 4 PLC ±- ANGLES ±-

FINISH

MATERIAL

SEE TABLE

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DWN

C.C.THOMAS

10-19-01

CHK

R.GROSS

10-19-01

APVD

R.GROSS

10-19-01

PRODUCT SPEC

-

USE ASSEMBLY PROCEDURE:

A.P. 560

WEIGHT

SEE TABLE

CUSTOMER DRAWING

SCALE

4:1

SHEET

1 OF 1

REV

0

tyco

Electronics

TYCO Electronics Corporation Harrisburg, PA 17105-3608

NAME

OSN PLUG TO SF-142 CABLE SOLDER ATTCHMENT

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

A2

00779

C=

1484438

-

1484438-1

PART NO.

AMP 1471-9 REV 11JUN97

REF: 3031-5005-29

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