

CONTROL DRAWING

29429-1

B

NOTES:

1. DESCRIPTION,

ASTRO-PHASE-SERIES ADAPTOR,
SMPM MALE, FULL DETENT TO 2.9mm (SMK) PLUG.
THIS ADAPTOR IS PART OF ASTRO-PHASE-SERIES,
A SERIES OF PHASE MATCHED ADAPTORS,
OFFERED BY H+S Astrolab.

2. MATERIALS AND FINISHES,
NUT,

STEEL, CORROSION RESISTANT PER ASTM A-582,
UNS No. S30300, COND. A, NON MAGNETIC,
PASSIVATED PER SAE-AMS-2700.
NO DICHROMATE SOLUTIONS USED.

BODY AND CENTER CONDUCTOR,
BERYLLIUM COPPER ALLOY PER ASTM B-196,
UNS No. C17300, TEMPER TD04(H),
GOLD PLATED 50 µIN (1.27 µM) MIN. THK.
PER ASTM B-488, CODE C, TYPE II, CLASS 1.27
OVER
NICKEL PLATE, 50 µIN (1.27 µM) MIN. THK.
PER SAE-AMS-QQ-N-290, CLASS 1.

DIELECTRIC,
POLYTETRAFLUOROETHYLENE (PTFE) PER ASTM D-1710,
OR ASTM D-4894, TYPE I, GRADE 1, CLASS A AND
POLYETHERIMIDE RESIN (PEI) (G.E. ULTEM®) PER ASTM D-5205

RETAINING RING,
BERYLLIUM COPPER, PER ASTM B-197 OR B-441,
UNS No. C17200 TEMPER TD04(H)

OUTGASSING,
ASSEMBLY MEETS OR EXCEEDS NASA
LOW OUTGASSING REQUIREMENTS.

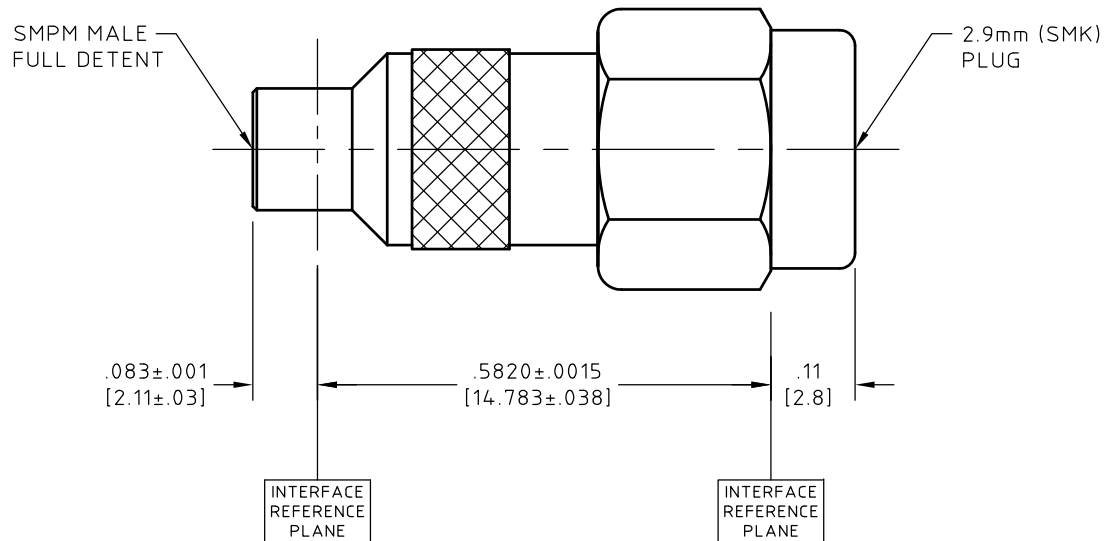
3. ELECTRICAL CHARACTERISTICS:

IMPEDANCE
50.0 Ohms NOMINAL.
FREQUENCY
40.0 GHz MAX.
INSERTION LOSS
0.40 dB MAX.
VSWR
1.35 : 1 MAX.

4. INTERFACES MEET MIL-STD-348.

5. OPERATING TEMPERATURE RANGE

-55° C TO +125° C.



3. ELECTRICAL CHARACTERISTICS:
IMPEDANCE
50.0 Ohms NOMINAL.
FREQUENCY
40.0 GHz MAX.
INSERTION LOSS
0.40 dB MAX.
VSWR
1.35 : 1 MAX.

UNLESS OTHERWISE SPECIFIED
CONCENTRICITY .004 T.I.R.
CORNERS AND FILLETS .005
MAX. RADIUS OR CHAMFER.
SURFACE FINISH 63 RMS
MICROINCHES OR BETTER.

FRACTIONS	± 1/16
X	± .030
XX	± .015
XXX	± .005
ANGLES	± 1°
DO NOT SCALE DRAWING	

	NAME	DATE
PREP.	AP	04/09/03
ELEC.	RF	04/23/03
MECH.	GSG	04/09/03
Q.C.		

HUBER+SUHNER

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TITLE ADAPTOR, SMPM MALE, FULL DETENT TO 2.9mm (SMK) PLUG		SCALE 4:1	CODE IDENT. 16301	DWG NO. 29429-1	REV B
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B	ECN No. 15377	02/28/13	EF	
REV.	DESCRIPTION	DATE	BY	APPROVED