



HUBER+SUHNER Astrolab PART NUMBER	DIMENSION "L" IN [mm]	2.0 GHz		12.4 GHz		18.0 GHz	
		VSWR	I.L. dB	VSWR	I.L. dB	VSWR	I.L. dB
32024E-29573HTCR-29092HTCR-2.5PM±1PS-STD	2.50±.13 [63.5±3.3]	1.18:1	0.19	1.30:1	0.39	1.45:1	0.57
32024E-29573HTCR-29092HTCR-3PM±1PS-STD	3.00±.13 [76.2±3.3]	1.18:1	0.20	1.30:1	0.43	1.45:1	0.61
32024E-29573HTCR-29092HTCR-3.5PM±1PS-STD	3.50±.13 [88.9±3.3]	1.18:1	0.21	1.30:1	0.47	1.45:1	0.65
32024E-29573HTCR-29092HTCR-4PM±1PS-STD	4.00±.13 [101.6±3.3]	1.18:1	0.23	1.30:1	0.50	1.45:1	0.68
32024E-29573HTCR-29092HTCR-4.5PM±1PS-STD	4.50±.13 [114.3±3.3]	1.18:1	0.24	1.30:1	0.53	1.45:1	0.72
32024E-29573HTCR-29092HTCR-5PM±1PS-STD	5.00±.13 [127.0±3.3]	1.18:1	0.25	1.30:1	0.56	1.45:1	0.76
32024E-29573HTCR-29092HTCR-5.5PM±1PS-STD	5.50±.13 [139.7±3.3]	1.18:1	0.26	1.30:1	0.59	1.45:1	0.79
32024E-29573HTCR-29092HTCR-6PM±1PS-STD	6.00±.13 [152.4±3.3]	1.18:1	0.28	1.30:1	0.62	1.45:1	0.83
32024E-29573HTCR-29092HTCR-6.5PM±1PS-STD	6.50±.13 [165.1±3.3]	1.18:1	0.29	1.30:1	0.65	1.45:1	0.87
32024E-29573HTCR-29092HTCR-7PM±1PS-STD	7.00±.13 [177.8±3.3]	1.18:1	0.30	1.30:1	0.68	1.45:1	0.90
32024E-29573HTCR-29092HTCR-8PM±1PS-STD	8.00±.13 [203.2±3.3]	1.18:1	0.32	1.30:1	0.74	1.45:1	0.98
32024E-29573HTCR-29092HTCR-9PM±1PS-STD	9.00±.13 [228.6±3.3]	1.18:1	0.35	1.30:1	0.81	1.45:1	1.05
32024E-29573HTCR-29092HTCR-10PM±1PS-STD	10.00±.13 [254.0±3.3]	1.18:1	0.37	1.30:1	0.87	1.45:1	1.12
32024E-29573HTCR-29092HTCR-11PM±1PS-STD	11.00±.13 [279.4±3.3]	1.18:1	0.40	1.30:1	0.93	1.45:1	1.20
32024E-29573HTCR-29092HTCR-12PM±1PS-STD	12.00±.13 [304.8±3.3]	1.18:1	0.42	1.30:1	0.99	1.45:1	1.27
32024E-29573HTCR-29092HTCR-13PM±1PS-STD	13.00±.13 [330.2±3.3]	1.18:1	0.44	1.30:1	1.05	1.45:1	1.34
32024E-29573HTCR-29092HTCR-14PM±1PS-STD	14.00±.13 [355.6±3.3]	1.18:1	0.47	1.30:1	1.11	1.45:1	1.42
32024E-29573HTCR-29092HTCR-15PM±1PS-STD	15.00±.13 [381.0±3.3]	1.18:1	0.49	1.30:1	1.18	1.45:1	1.49
32024E-29573HTCR-29092HTCR-16PM±1PS-STD	16.00±.13 [406.4±3.3]	1.18:1	0.52	1.30:1	1.24	1.45:1	1.56
32024E-29573HTCR-29092HTCR- PM± 1PS-STD							

NOTES:

- DESCRIPTION,
CABLE ASSEMBLY, SMP FEMALE TO
SMA JACK, PHASE MATCHED
WITHIN 2.0 Pico Seconds [±1PS].
- CABLE,
COAXIAL CABLE H+S Astrolab
P/N 32024E MEETS OR EXCEEDS
MIL-DTL-17
SEE CONTROL DRAWING FOR MATERIALS
AND FINISHES.
- CONNECTOR -A-, SMP FEMALE:
H+S Astrolab P/N 29573HTCR-32-24
IAW MIL-STD-348.
SEE CONTROL DRAWING FOR MATERIALS
AND FINISHES.
- CONNECTOR -B-, SMA JACK:
H+S Astrolab P/N 29092HTCR-32-24
IAW MIL-STD-348.
SEE CONTROL DRAWING FOR MATERIALS
AND FINISHES.

NOTES CONTINUED:

- MARKING:
MARKER SLEEVE, FLOATING ONTO CABLE
BUT CAPTIVATED FROM FALLING OFF.
MATERIAL, HEAT SHRINKABLE SLEEVING
PER SAE-AMS-DTL-23053.
MARKING, .060 [1.52] MIN. TALL
CHARACTERS IN CONTRASTING COLOR
AND IAW MIL-STD-130,
DATE CODE PER MIL-STD-1285
MARKING PERMANENCE IAW SAE-AMS-81531.
CABLE ASSEMBLIES 4 INCHES OR SHORTER
WILL HAVE NO CENTER MARKER SLEEVE.
- ELECTRICAL CHARACTERISTICS:
IMPEDANCE,
50.0 Ohms NOMINAL.
FREQUENCY, INSERTION LOSS
AND VSWR SEE CHART.
PHASE MATCHED,
ALL CABLE ASSEMBLIES WILL BE PHASE
MATCHED TO A GOLDEN STANDARD.
LIMITS OF PHASE MATCH IN 1PS
(PICO SECONDS)
AS DEFINED BY CUSTOMER.
- MECHANICAL:
OPERATING TEMPERATURE RANGE,
-55° C TO +125° C.
- "L" LENGTH TOLERANCE CONTROLLED
BY PHASE MATCH.

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	 HUBER+SUHNER Astrolab		
PREP.	WR	05/30/18			
ELEC.					
MECH.					
Q.C.					
THIS DRAWING CONTAINS PATENTABLE AND PROPRIETARY INFORMATION. THE DESIGN CANNOT BE USED WITHOUT WRITTEN PERMISSION OF HUBER + SUHNER ASTROLAB.					
TITLE					
±1PS PHASE MATCHED CAY. SMP FEMALE TO SMA JACK. minibend L TYPE					
THDS. TO BE IN ACCORD WITH U.S. DEPT. OF COMM. SCREW THD. STDs. FOR FEDERAL SERVICES 1950 SUPL. TO HANDBOOK H 28.		SCALE 1:1	CODE IDENT. 16301	DWG NO. 32024E-29573HTCR-29092HTCR-XXPM±1PS-STD	REV A

A	ECN No. 20270	05/30/18	WR	
REV.	DESCRIPTION	DATE	BY	APPROVED