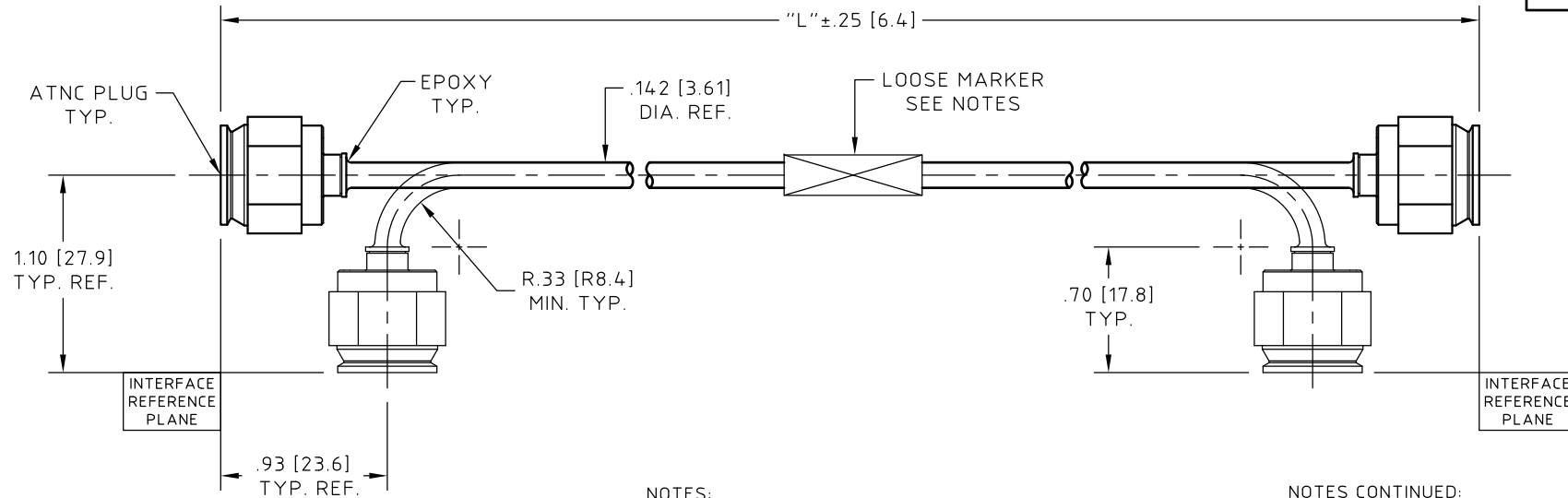


## CONTROL DRAWING

mini141 T-XX



## NOTES:

- DESCRIPTION,  
CABLE ASSEMBLY, ATNC (TNCA) PLUG  
TO ATNC (TNCA) PLUG.
- CABLE,  
COAXIAL CABLE HUBER+SUHNER Astrolab P/N 32022E  
MEETS OR EXCEEDS MIL-DTL-17.  
SEE HUBER+SUHNER Astrolab CONTROL DRAWING  
FOR MATERIALS AND FINISHES.
- CONNECTOR -A-, ATNC PLUG:  
HUBER+SUHNER Astrolab P/N 29882CR-32-22  
ATNC PLUG CONNECTOR MATES WITH  
TNCA JACK THAT IS IAW MIL-STD-348.  
SEE HUBER+SUHNER Astrolab CONTROL DRAWING  
FOR MATERIALS AND FINISHES.
- CONNECTOR -B-, ATNC PLUG:  
SAME AS CONNECTOR -A-.
- MARKING:  
LOOSE, WHITE SLEEVING CAPTIVATED  
ONTO CABLE ASSEMBLY.  
MARKING WILL INCLUDE THE HUBER+SUHNER  
Astrolab PART NUMBER, CAGE CODE AND  
DATE CODE FOR DATE OF MANUFACTURE.

SEE NOTE 8

## NOTES CONTINUED:

- NO MARKING ON CABLE ASSEMBLIES  
SHORTER THAN 3.0" [76.2].  
MARKING ON PACKAGING ONLY.
- ELECTRICAL CHARACTERISTICS:  
IMPEDANCE,  
50.0 Ohms NOMINAL.  
FREQUENCY, INSERTION LOSS AND VSWR  
SEE CHART.
- MECHANICAL:  
OPERATING TEMPERATURE RANGE,  
-55° C TO +125° C.  
PULL STRENGTH TO 25 Lbs [111.2 N].
- ATTENUATION FORMULAS:  
8A. CALCULATE AT 18.5 GHz  
(dB) = .55 dB/FT. X L(ft.)+.40 dB

HUBER+SUHNER Astrolab PART NUMBER	DIMENSION "L"	2.0 GHz		12.4 GHz		18.5 GHz	
		VSWR	I.L. dB	VSWR	I.L. dB	VSWR	I.L. dB
mini141 T-4	4.00 [101.6]	1.25:1	0.18	1.29:1	0.37	1.40:1	0.57
mini141 T-4.5	4.50 [114.3]	1.25:1	0.19	1.29:1	0.39	1.40:1	0.59
mini141 T-5	5.00 [127.0]	1.25:1	0.20	1.29:1	0.41	1.40:1	0.62
mini141 T-5.5	5.50 [139.7]	1.25:1	0.20	1.29:1	0.43	1.40:1	0.64
mini141 T-6	6.00 [152.4]	1.25:1	0.21	1.29:1	0.45	1.40:1	0.67
mini141 T-6.5	6.50 [165.1]	1.25:1	0.22	1.29:1	0.47	1.40:1	0.69
mini141 T-7	7.00 [177.8]	1.25:1	0.23	1.29:1	0.49	1.40:1	0.71
mini141 T-8	8.00 [203.2]	1.25:1	0.24	1.29:1	0.53	1.40:1	0.76
mini141 T-9	9.00 [228.6]	1.25:1	0.26	1.29:1	0.57	1.40:1	0.81
mini141 T-10	10.00 [254.0]	1.25:1	0.27	1.29:1	0.60	1.40:1	0.86
mini141 T-11	11.00 [279.4]	1.25:1	0.29	1.29:1	0.64	1.40:1	0.90
mini141 T-12	12.00 [304.8]	1.25:1	0.30	1.29:1	0.68	1.40:1	0.95
mini141 T-13	13.00 [330.2]	1.25:1	0.32	1.29:1	0.72	1.40:1	1.00
mini141 T-14	14.00 [355.6]	1.25:1	0.33	1.29:1	0.76	1.40:1	1.05
mini141 T-15	15.00 [381.0]	1.25:1	0.35	1.29:1	0.80	1.40:1	1.09
mini141 T-16	16.00 [406.4]	1.25:1	0.36	1.29:1	0.83	1.40:1	1.14
mini141 T-17	17.00 [431.8]	1.25:1	0.38	1.29:1	0.86	1.40:1	1.18
mini141 T-33	33.00 [838.2]	1.25:1	0.61	1.29:1	1.45	1.40:1	1.91
mini141 T-		1.25:1		1.29:1		1.40:1	

ROHS 5/6 COMPLIANT

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. GSG	05/05/03
ELEC. RF	05/05/03
MECH. DPD	05/05/03
Q.C. AG	05/05/03



THIS DRAWING CONTAINS PATENTABLE AND PROPRIETARY  
INFORMATION. THE DESIGN CANNOT BE USED WITHOUT  
WRITTEN PERMISSION OF HUBER + SUHNER ASTROLAB.

TITLE				
CABLE ASSY, TYPE mini141, ATNC PLUG TO ATNC PLUG.				
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. mini141 T-XX	REV L

L	ECN No. 15819	10/04/13	EB	
REV.	DESCRIPTION	DATE	BY	APPROVED

# Mouser Electronics

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