



Micro Communications, Inc.  
A MICROWAVE TECHNIQUES COMPANY

SERIES 11000-17000

# RF TRANSMISSION LINE COAX COMPONENTS/ACCESSORIES

PT	QTY.	LIST OF PARTS
1	1	ANCHOR CONNECTOR
2	2	FLANGE
3	1	OUTER CONDUCTOR
4		TEFLON PINS
5	1	INNER CONDUCTOR-CU
6	1	O-RING SEAL
7	1 SET	HARDWARE

20 FT

\*20.00 FT  
\*19.75 FT  
\*19.50 FT

TRANSMISSION LINE \*BASED ON FREQUENCY

PT	QTY.	LIST OF PARTS
1	1	CONNECTOR
2	1	OUTER CONDUCTOR
3	1	INNER CONDUCTOR
4	1	O-RING SEAL
5	1 SET	HARDWARE

90°

INNER CONDUCTOR UNSUPPORTED

90° ELBOW (UNSUPPORTED INNER)  
SUPPORTED ELBOW ALSO AVAILABLE  
UNEQUAL LEGS AVAILABLE

SIZE	L
7/8	2 15/16
1 5/8	2 3/8
3 1/8	3 13/16
4 1/16	6
6 1/8	5 1/2
8 3/16	12
9 3/16	12

PT	QTY.	LIST OF PARTS
1	1	SADDLE
2	1*	CLAMP
3	1 SET	HARDWARE

SINGLE MT'G HOLE

\*NOTE: 2 CLAMPS SUPPLIED FOR 6 1/8 SIZE.

SIZE	A	MT'G HOLE
7/8	2 3/4	3/8 DIA
1 5/8	2 3/4	3/8 DIA
3 1/8	3 1/2	1/2 DIA
4 1/16	5 5/8	9/16 DIA
6 1/8	5 5/8	5/8 DIA
8 3/16	6 5/16	9/16 DIA
9 3/16	6 5/16	9/16 DIA

FIXED HANGER

PT	QTY.	LIST OF PARTS
1	1	GUIDE
2	1	SPRING
3	1	SADDLE
4	1*	CLAMP
5	1 SET	HARDWARE

SINGLE MT'G HOLE

SIZE	A	MT'G HOLE
7/8	2 7/8	3/8 DIA
1 5/8	2 7/8	3/8 DIA
3 1/8	3 5/8	1/2 DIA
4 1/16	5 5/8	2 9/16 DIA
6 1/8	5 5/8	5/8 DIA
8 3/16	6 5/16	9/16 DIA
9 3/16	6 5/16	9/16 DIA

SPRING HANGER

PT	QTY.	LIST OF PARTS
1	1	CONNECTOR
2	1	INSULATOR

SIZE	A	B
7/8	7/8	2 11/16
1 5/8	1 1/8	3 1/4
3 1/8	1 3/4	4 1/4
4 1/16	2 1/2	5 1/2
6 1/8	2 1/2	5 1/2
8 3/16	3 1/8	6 1/4
9 3/16	3 3/16	7 5/16

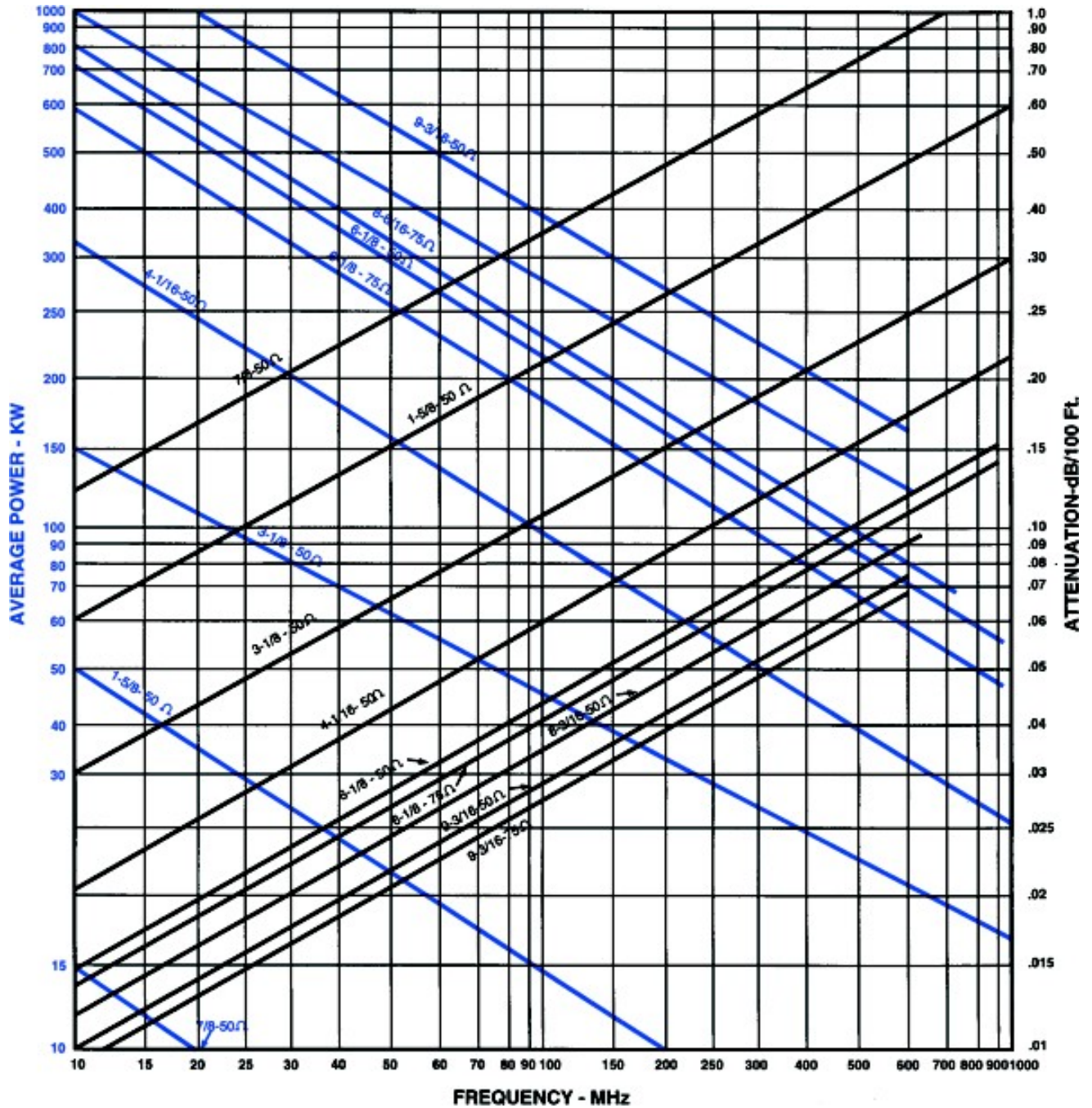
ANCHOR CONNECTOR

COAXIAL LINE SIZE					
T/L Size	Impedance In Ohms	OUTER CONDUCTOR		INNER CONDUCTOR	
		OD	ID	OD	ID
7/8"	50	.875"	.785"	0.341"	0.291"
1 5/8"	50	1.625"	1.527"	0.664"	0.588"
3 1/8"	50	3.125"	3.027"	1.315"	1.231"
4 1/16"	50	4.062"	3.935"	1.711"	1.630"
6 1/8"	50	6.125"	5.981"	2.600"	2.520"
9 3/16"	50	9.166"	9.000"	3.910"	3.812"
6 1/8"	75	6.125"	5.981"	1.711"	1.666"
8 3/16"	75	8.150"	8.000"	2.293"	2.229"
9 3/16"	75	9.166"	9.000"	2.580"	2.516"



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TRANSMISSION LINE ATTENUATION AND POWER RATING vs FREQUENCY



**Average Power**

Ratings based on:  
VSWR --1.0  
Ambient Temp. -- 40°C  
Inner Cond. Temp. -- 102°C  
Pressure -- 0 psig

**Attenuation**

Curves based on:  
VSWR --1.0:1  
Ambient Temp. -- 24°C  
Coax -- Copper  
Resistivity 1.73  $\mu\Omega$ -cm

**Line Length**

For minimum flange reflection:  
 $L = N (\lambda/4)$   
N = odd integer  
--UHF--  
39 N 66 --20 ft. length (6 meters)  
23 N 40 --12 ft. length (3.6 meters)



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