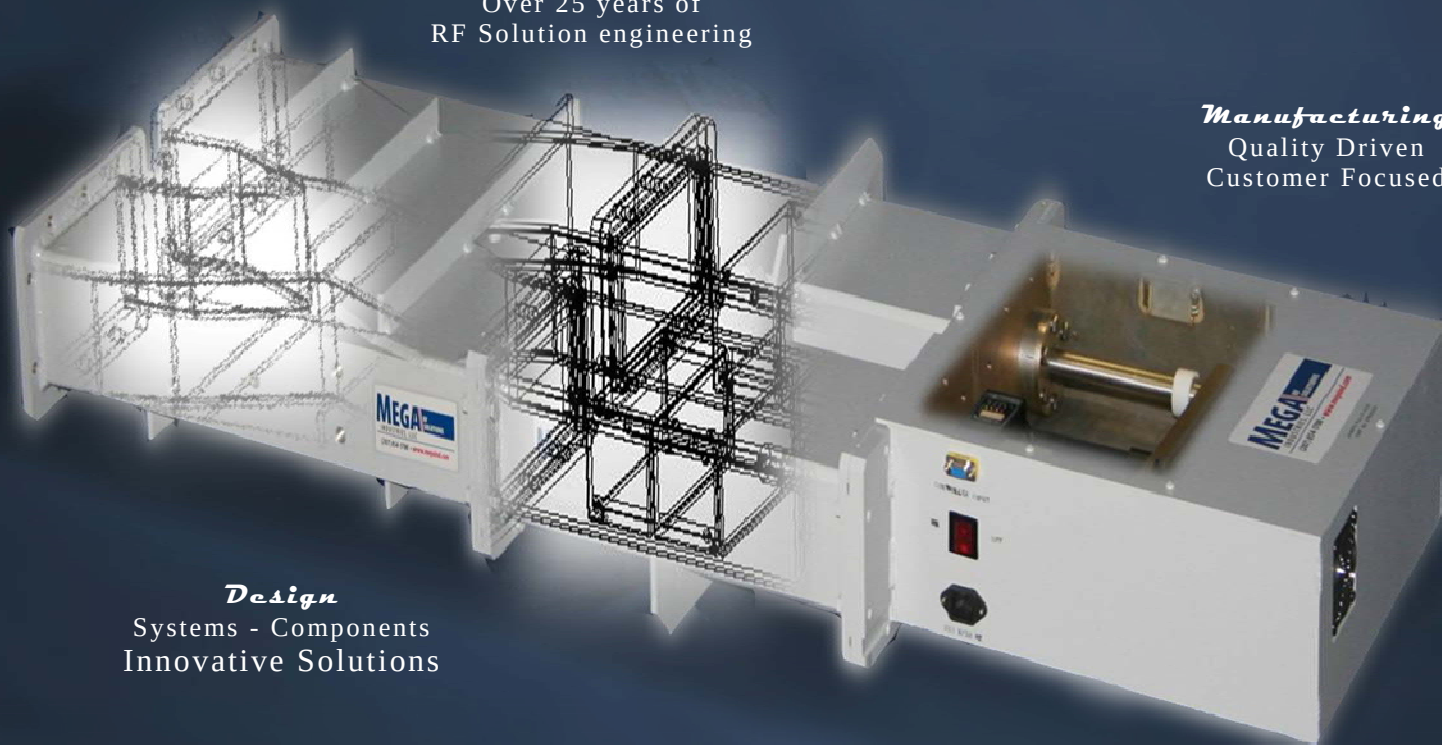


Engineering
Over 25 years of
RF Solution engineering

Manufacturing
Quality Driven
Customer Focused

Design
Systems - Components
Innovative Solutions



Coaxial Transmission Line

MEGA RF Solutions

Rigid Waveguide



Coaxial Components



Solutions



Ultra High Vacuum



Semi-Flexible
Waveguide



Mega Industries, LLC • 28 Sanford Drive, Gorham, Me. 04038 USA
Phone: 207-854-1700 Fax: 207-854-2287 E-Mail: sales@megaind.com
www.megaind.com

Welcome to MEGA INDUSTRIES, LLC A World Leader In Microwave Transmission Equipment

A trusted name in microwave technology since 1989, Mega Industries is a world leader in the manufacture of microwave transmission equipment.

The continued growth of Mega Industries is attributable to the diverse backgrounds and experience of our managerial and technical staff.

Mega's microwave product lines include Rigid Waveguide, Semi-Flexible Waveguide and Coaxial Transmission Line.

Mega Has Launched A New Product Line

Mega has announced the launch of a new line of FM Broadcast Components. Among the items unveiled was a line of FM and IBOC filter products that will meet the demanding requirements facing the broadcasters of today.

In addition to our microwave and FM product lines, Mega Industries' machining and fabrication departments can provide equipment for shipboard systems, commercial metal fabrications, research and development applications or other products requiring expertise in metalworking.

Customer Base

- ▶ **Domestic and International**
- ▶ **Military**
- ▶ **Aviation High Energy**
- ▶ **Particle Accelerator and Fusion Research**

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Our Products

Microwave Transmission Equipment

A trusted name in Microwave Technology since 1989, MEGA Industries is now a world leader in the manufacture of Microwave Transmission equipment. We are your one source of high power low frequency, rigid waveguide and waveguide components.

Rigid Waveguide

Mega Industries Waveguide is manufactured to precise tolerances calculated to provide optimum VSWR and maximum power handling capabilities. Mega provides waveguide in sizes WR90 through W2300. Full and reduced height configurations are also available to meet your design requirements. Custom sizes through WR6200 are also available on special request.

Semi-Flexible Waveguide

Mega's process of manufacturing Semi-Flexible Waveguide by brazing the seam off the center assures excellent performance in your high power applications. The process of brazing or fusion welding and not joining by epoxy assures a long life joint not prone to splitting or leaking.

Coaxial Transmission Line

Mega Industries Coaxial Transmission Line is manufactured to exacting electrical and mechanical tolerances to provide maximum stability and minimum VSWR. Mega manufactures coaxial transmission line and components in sizes Type N to 14-inch diameter.

Using Teflon, Ceramic or other insulator materials and employing special high power connector designs Mega Coaxial Transmission Line can operate at peak performance even in the harshest environments.



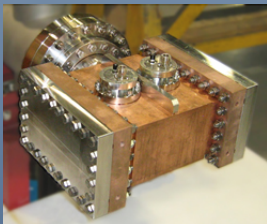
Innovative Custom Solutions

When ideas push the limits of what has been done before, that is where you will find the experience and engineering talent of the Mega team.

Our years of innovation and ability to take concepts from sketch to delivered solutions are what sets Mega apart. We deliver intricate shapes, uncommon materials, non-standard waveguide and coax sizes, and solutions for elevated power levels. Be it water-cooled coax, ultra high vacuum couplers or Gigawatt power levels, Mega is ready to deliver.

Taking the vast array of RF waveguide and coax components available and applying them to create systems is no trivial matter. It takes years to build a portfolio that can then be used as both a starting point and a catalyst to create new solutions, adaptations, and whole new designs that push the envelope and support innovation. Mega has decades of design experience that can be applied to solve even the most difficult design challenge.

Ultra High Vacuum WR650 Directional Coupler



This WR650 Directional Coupler was developed and manufactured for a cutting edge application where High Vacuum Levels (10^{-10} Torr) and Low Leak Rates were required.

Mega Industries developed a solution and delivered a device that will allow these scientists to continue research.

WR650 Reduced Height Combiner



This reduced height WR650 Combiner was designed and manufactured for a demanding application where precision Phase Matching High Vacuum levels (10^{-6} Torr) and High Power levels (>Gigawatt) were required. Mega Industries met this challenge and delivered a device that met all of these requirements and kept the customer on schedule.

Coaxial Transmission Line



Mega Industries manufactures coaxial transmission line and components in sizes from type N through 14-inch diameter. Copper and aluminum alloy tubes are available for outer conductors and high conductivity copper tubes are utilized for inner conductors. Teflon line supports are used in standard transmission line and rexolite or ceramic supports are available for special applications.

In addition to straight transmission line, coaxial components such as 45- and 90-degree elbows, special angle bends, directional couplers, impedance transformers, impedance matchers, tee junctions, hybrid couplers, phase shifters, attenuators, and filters are available to complete your systems. Spare parts such as flanges, adaptors, hangers and connectors are also available in all sizes.

All Mega Industries transmission lines are manufactured to exacting electrical and mechanical tolerances to provide maximum stability and minimum VSWR.



Accessories

Mega has all the accessories that you need for prototype development and general laboratory use, Mega offers anchor connectors, anchor insulators, line insulators, half connectors, flanges, o-rings, hardware kits and hangers. Many of these accessories are stocked for immediate delivery.

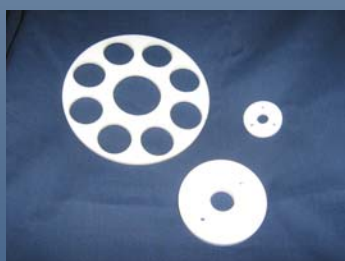
Flanges



Size	7/8	1-5/8	3-1/8	4-1/16	6-1/8	9-3/16	12
Fixed Flange	622800000	632800000	642800000	652800000	662800000	682800000	702800000
Swivel Flange	622800100	632800100	642800100	652800100	662800100	682800100	702800100
Locking Flange	622800200	632800200	642800200	652800200	662800200	682800200	702800200

To choose a Brass flange for sizes 7/8 to 9-3/16 change the 5th digit in the catalog number to a 2.

Connectors and Insulators



Size	7/8	1-5/8	3-1/8	4-1/16	6-1/8	9-3/16	12
Anchor Connector	623100000	633100000	643100000	653100000	663100000	683100000	703100000
Half Connector	623100100	633100100	643100100	653100100	663100100	683100100	703100100
Anchor Insulator	623100400	633100400	643100400	653100400	663100400	683100400	703100400
Line Insulator	623100500	633100500	643100500	653100500	663100500	683100500	703100500

Hardware Kits



Torque Specification			
T/L Size	Bolt	Torque	Metric
1 5/8	5/16"	130 in. lb.	15N-m
3 1/8	3/8"	210 in. lb.	24N-m
4 1/16	3/8"	211 in. lb.	24N-m
6 1/8	3/8"	212 in. lb.	24N-m
9 3/16	3/8"	214 in. lb.	24N-m

Size	7/8	1-5/8	3-1/8	4-1/16	6-1/8	9-3/16	12
Hardware Kit w/ O-Ring	622900000	632900000	642900000	652900000	662900000	682900000	702900000
Hardware Kit w/o O-Ring	622900010	632900010	642900010	652900010	662900010	682900010	702900010

Hangers



Size	7/8	1-5/8	3-1/8	4-1/16	6-1/8	9-3/16	12
Fixed Hanger	623000000	633000000	643000000	653000000	663000000	683000000	703000000
Roller Hanger	623000010	633000010	643000010	653000010	663000010	683000010	703000010

Adaptors to Type N

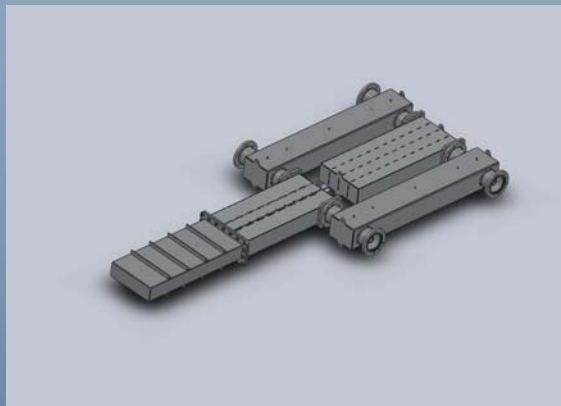
Mega's instrument quality coaxial adaptors are electrically compensated to provide minimum VSWR over a wide range of frequencies. Unless otherwise specified, adaptors are supplied with a male connector and a Type N female connector. Brass is available from 7/8" - 6-1/8" this is indicated by changing the 5th digit in the catalog number to a 3.



Size	7/8	1-5/8	3-1/8	4-1/16	6-1/8	9-3/16	12
Aluminum	620900000	630900000	640900000	650900000	660900000	680900000	700900000
Brass	62092000X	63092000X	64092000X	65092000X	66092000X		

Attenuators

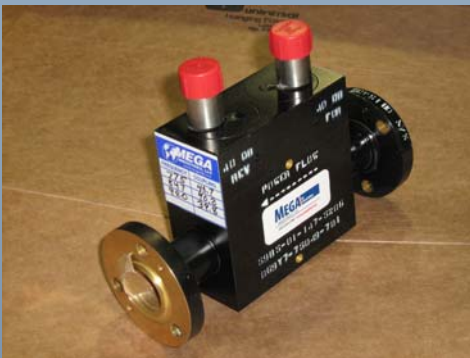
Our variable coaxial attenuator designs utilize external loads and are capable of the full average power rating of the transmission line. Fixed Attenuators are available upon request.



Size	7/8	1-5/8	3-1/8	4-1/16	6-1/8	9-3/16
Manual	6225000X0	6325000X0	6425000X0	6525000X0	6625000X0	6825000X0
Motorized	6225010X0	6325010X0	6345010X0	6525010X0	6625010X0	6825010X0

Directional Couplers

Mega offers a full range of coaxial couplers to meet your varied requirements for power monitoring. Whether your need is for a vestigial loop type with a 6 dB per octave slope or a quarter-wave style offering you flat coupling over a 10% bandwidth, our couplers assure you years of trouble free service. Both style couplers are available in either single coupler (monitor) type or dual directional (reflectometer) type. Custom configurations with three or more couplers are also available.



The compact quarter-wave loop directional couplers have provision for an external load, which greatly increases the power handling capacity. Units are available in 10 dB increments from 20 dB through 70 dB coupling factors and many other values are available at no additional cost. All electrical data is traceable to the National Bureau of Standards. Typical electrical response of these



The vestigial loop directional couplers are extremely compact and provide broadband RF measuring capabilities. The monitors and reflectometers exhibit a 6 dB per octave response.

Quarter-Wave Loop Coupler

Size	7/8	1-5/8	3-1/8	4-1/16	6-1/8	9-3/16	12
Monitor	621900000	631900000	641900000	651900000	661900000	681900000	701900000
Reflectometer	621900010	631900010	641900010	651900010	661900010	681900010	701900010

Typical Electrical Response	
Coupling	15 – 30 dB $\pm$ 1 dB
VSWR	1.05:1
Directivity	30 dB Nominal
Bandwidth	10%

Vestigial Loop Directional Coupler

Size	7/8	1-5/8	3-1/8	4-1/16	6-1/8	9-3/16	12
Monitor	621800000	631800000	641800000	651800000	661800000	681800000	701800000
Reflectometer	621800010	631800010	641800010	651800010	661800010	681800010	701800010

Typical Electrical Response	
Coupling	30 – 70 dB $\pm$ 1 dB
VSWR	1.05:1
Directivity	30 dB Nominal
Bandwidth	10%

To choose a Brass flange for sizes 7/8 to 9-3/16 change the 5th digit in the catalog number to a 2.

Elbows

Mega's transmission line coaxial elbows are available with copper or aluminum outer conductor assemblies to provide you with flexibility in system design. These coaxial elbows are carefully fabricated to assure maximum mechanical stability and minimum VSWR over the entire operating frequency range of the elbow. For units of a different diameter not specified in the tables below contact our sales department. Copper available in sizes 7/8" –9-3/16" this would be indicated by changing the 5th digit in the catalog number to a 1.



Size	Standard Equal Leg	Standard Unequal Leg
7/8	3 x 3	3 x 6
1 5/8	3 x 3	3 x 6
3-1/8	6 x 6	6 X 9
4-1/16	6 X 6	6 X 12
6-1/8	9 X 9	9 X 18
9-3/16	12 X 12	12 X 24

Size	7/8	1-5/8	3-1/8	4-1/16	6-1/8	9-3/16	12
90° Equal Leg	620401100	630401100	640401100	650401100	660401100	680401100	700401100
90° Un-Equal	620501100	630501100	640501100	650501100	660501100	680501100	700501100
45° Equal Leg	620601100	630601100	640601100	650601100	660601100	680601100	700601100
45° Un-Equal	620701100	630701100	640701100	650701100	660701100	680701100	700701100

Gas Stops

Mega's coaxial gas stops or windows are fabricated to stringent electrical and mechanical specifications to provide a low VSWR, low insertion loss, compensated gas stop. Teflon dielectric and 1/8" NPT-F fittings are supplied in our standard units, however, different fittings; ceramic or other dielectric materials are available of special service applications.



Size	7/8	1-5/8	3-1/8	4-1/16	6-1/8	9-3/16	12
Aluminum	621100000	631100000	641100000	651100000	661100000	681100000	701100000
Brass	62112000X	63112000X	64112000X	65112000X	66112000X	68112000X	

Harmonic Filters

For suppression of unwanted harmonic power, Mega offers a comprehensive line of reactive and absorptive coaxial filters. Typical specifications are below.

As well as the units tabulated below, many other frequency ranges and attenuation levels are available. Contact our sales department for complete technical information.

Typical Electrical Specifications		
	Reactive	Absorptive
VSWR	1.05:1	1.15:1
Harmonic VSWR		2:1
Insertion Loss	0.1 dB	0.2 dB
Rejection 2nd	40 dB	25 dB
Rejection 3rd	40 dB	30 dB
Rejection 4th	40 dB	25 dB

Absorptive

Size	7/8	1-5/8	3-1/8	4-1/16	6-1/8	9-3/16	12
	6236000X0	6336000X0	6436000X0	6536000X0	6636000X0	6836000X0	7036000X0

Reactive

Size	7/8	1-5/8	3-1/8	4-1/16	6-1/8	9-3/16	12
	6234000X0	6334000X0	6434000X0	6534000X0	6634000X0	6834000X0	7034000X0

Copper is available in sizes 7/8 - 9", this is indicated by changing the 5th digit of the catalog number to a 1.

Hybrid Couplers

Mega offers 3 dB 90° air-dielectric transmission line coaxial hybrid couplers in a variety of configurations and bandwidths. Electrical specifications for quarter-wave units over a 10% bandwidth are as follows:



Typical Electrical Specifications over a 10% Bandwidth	
Coupling	3 dB +/- 0.2 dB
Isolation	27 dB Minimum
VSWR	1.08:1 Maximum
Phase Shift	90° +/- 2°
Insertion Loss	Less than 0.1 dB

Crossover

Size	7/8	1-5/8	3-1/8	4-1/16	6-1/8	9-3/16	12
3 dB	621500000	631500000	641500000	651500000	661500000	681500000	701500000
4.77 dB	621500010	631500010	641500010	651500010	661500010	681500010	701500010
6 dB	621500020	631500020	641500020	651500020	661500020	681500020	701500020
10 dB	621500030	631500030	641500030	651500030	661500030	681500030	701500030

Non Crossover

Size	7/8	1-5/8	3-1/8	4-1/16	6-1/8	9-3/16	12
3 dB	621501000	631501000	641501000	651501000	661501000	681501000	701501000
4.77 dB	621501010	631501010	641501010	651501010	661501010	681501010	701501010
6 dB	621501020	631501020	641501020	651501020	661501020	681501020	701501020
10 dB	621501030	631501030	641501030	651501030	661501030	681501030	701501030

Inline

Size	7/8	1-5/8	3-1/8	4-1/16	6-1/8	9-3/16	12
3 dB	621502000	631502000	641502000	651502000	661502000	681502000	701502000
4.77 dB	621502010	631502010	641502010	651502010	661502010	681502010	701502010
6 dB	621502020	631502020	641502020	651502020	661502020	681502020	701502020
10 dB	621502030	631502030	641502030	651502030	661502030	681502030	701502030

Copper is available in sizes 7/8 - 9", this is indicated by changing the 5th digit of the catalog number to a 1.

Impedance Transformer

Coaxial impedance transformers are available in 1.5:1, 2:1, 3:1 and many other ratios with bandwidths up to 10:1. These computer designed units assure accurate transformations and minimum VSWR's commensurate with selected bandwidth.



Size	7/8	1-5/8	3-1/8	4-1/16	6-1/8	9-3/16	12
50 - 25 OHM	620800000	630800000	640800000	650800000	660800000	680800000	700800000
50 - 75 OHM	620800010	630800010	640800010	650800010	660800010	680800010	700800010
50 - 100 OHM	620800020	630800020	640800020	650800020	660800020	680800020	700800020

Copper is available in sizes 7/8 - 9", this is indicated by changing the 5th digit of the catalog number to a 1.

Loads

Mega Industries offers a full range of coaxial high power loads to meet the most demanding specifications. Both water and air cooled loads are offered in different configurations to best suit the application. In many configurations it is necessary to use a “doped” solution for the load medium and in this instance, an integrated heat exchanger system is offered as an option.

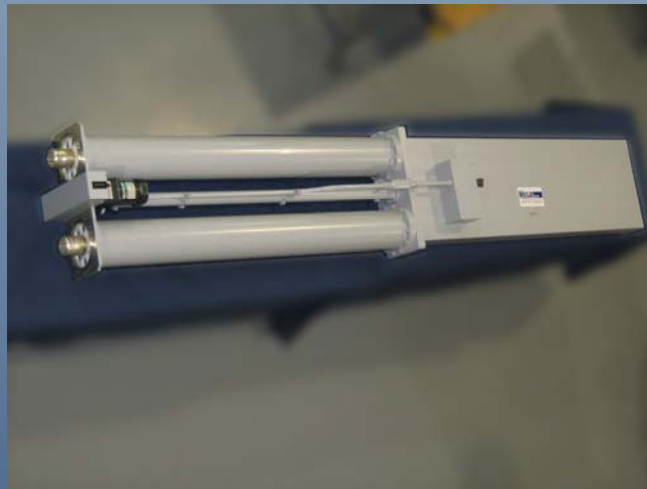


Size	7/8	1-5/8	3-1/8	4-1/16	6-1/8	9-3/16
Doped Water load	622700100	632700100	642700100	652700100	662700100	682700100
Dry Load	622700110	632700110	642700110	652700110	662700110	682700110

Copper is available in sizes 7/8 - 9”, this is indicated by changing the 5th digit of the catalog number to a 1.

Phase Shifters

Mega's coaxial phase shifters are a constant impedance design with low insertion loss, low VSWR, and virtually no WOW. The standard travel lengths are tabulated below for both manual and motorized configurations. Remote position indicators via 10 K Ω potentiometer are standard on all coaxial phase shifters.



Manual

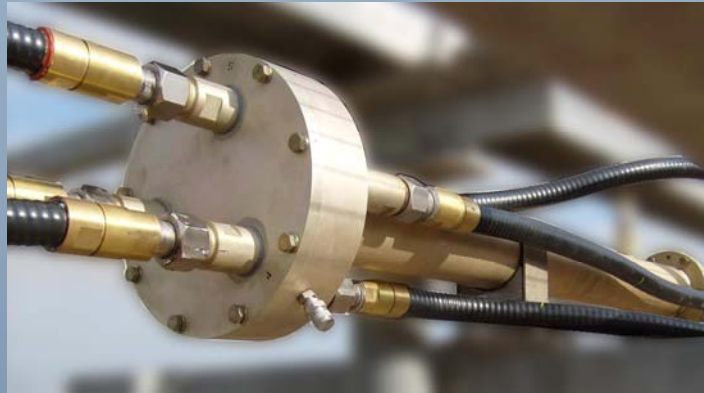
Size	7/8	1-5/8	3-1/8	4-1/16	6-1/8	9-3/16	12
8" Mechanical Travel	622200000	632200000	642200000	652200000			
16" Mechanical Travel	622200010	632200010	642200010	652200010	662200010		
24" Mechanical Travel	622200020	632200020	642200020	652200020	662200020	682200020	702200020
36" Mechanical Travel	622200030	632200030	642200030	652200030	662200030	682200030	702200030
48" Mechanical Travel	622200040	632200040	642200040	652200040	662200040	682200040	702200040
60" Mechanical Travel	622200050	632200050	642200050	652200050	662200050	682200050	702200050

Motorized

Size	7/8	1-5/8	3-1/8	4-1/16	6-1/8	9-3/16	12
8" Mechanical Travel	622201000	632201000	642201000	652201000			
16" Mechanical Travel	622201010	632201010	642201010	652201010	662201010		
24" Mechanical Travel	622201020	632201020	642201020	652201020	662201020	682201020	702201020
36" Mechanical Travel	622201030	632201030	642201030	652201030	662201030	682201030	702201030
48" Mechanical Travel	622201040	632201040	642201040	652201040	662201040	682201040	702201040
60" Mechanical Travel	622201050	632201050	642201050	652201050	662201050	682201050	702201050

Power Dividers

Coaxial power dividers are typically non-isolation for use in power distribution or combining applications. Input/output configurations are listed below for reference. Isolation power dividers are also available and designed to your specifications.



When requesting quote please specify the Output size.

Size	7/8	1-5/8	3-1/8	4-1/16	6-1/8	9-3/16
Output sizes available	Type N	Type N	Type N			
	7/8	7/8	7/8	7/8	7/8	
		1-5/8	1-5/8	1-5/8	1-5/8	1-5/8
			3-1/8	3-1/8	3-1/8	3-1/8
				4-1/16	4-1/16	4-1/16
					6-1/8	6-1/8
						9-3/16

Size	7/8	1-5/8	3-1/8	4-1/16	6-1/8	9-3/16
2 Way	622600000	632600000	642600000	652600000	662600000	702600000
3 Way	622600010	632600010	642600010	652600010	662600010	702600010
4 Way	622600020	632600020	642600020	652600020	662600020	702600020
6 Way	622600030	632600030	642600030	652600030	662600030	702600030

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Reducers

Mega offers a broad selection of coaxial reducers for ease in system interfacing. Reducers are available in copper and brass. Contact our sales department for information on coaxial reducers.



Reduced to Size

Size	7/8	1-5/8	3-1/8	4-1/16	6-1/8	9-3/16
1-5/8	631000000					
3-1/8	641000000	641000010				
4-1/16	651000000	651000010	651000020			
6-1/8	661000000	661000010	661000020	661000030		
9-3/16			681000020	681000030	681000040	
12			701000020	701000030	701000040	701000050

Copper is available in sizes 7/8 - 9", this is indicated by changing the 5th digit of the catalog number to a 1.

Rotary Joints

Mega offers both contacting and non-contacting coaxial rotary joints, in single and dual channel configurations. These coaxial rotary joints are rated at 60% of transmission line power and exhibit extremely low VSWR, WOW and insertion loss.

Contact our sales department for complete technical information.

Contacting

Size	7/8	1-5/8	3-1/8	4-1/16	6-1/8	9-3/16	12
Single Channel	623500000	633500000	643500000	653500000	663500000	683500000	703500000
Dual Channel	623500010	633500010	643500010	653500010	663500010	683500010	703500010

Non-Contacting

Size	7/8	1-5/8	3-1/8	4-1/16	6-1/8	9-3/16	12
Single Channel	623500100	633500100	643500100	653500100	663500100	683500100	703500100
Dual Channel	623500110	633500110	643500110	653500110	663500110	683500110	703500110

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Phone: 207-854-1700 Fax: 207-854-2287

E-Mail: sales@megaind.com

Switches & Patch Panels

A variety of switching configurations are available to satisfy almost any subsystem requirement. When infrequent switching is required, maximum economy is achieved with the use of multiple port patch links. These links are available in 1-5/8 through 9" diameter line sizes and in 3, 4, 5 or 7 port configurations. Interlock kits are an option.

Rotary switch configurations are available for SPDT & DPDT. These units can be operated manually or can be motorized for remote control. Class C contacts are available for position and interlock capabilities.



Switches

Size	1-5/8	3-1/8	4-1/16	6-1/8	9-3/16
SPDT	633300010	643300010	653300010	663300010	683300010
DPDT	633300110	643300110	653300110	663300110	683300110

Patch Panels

Size	1-5/8	3-1/8	4-1/16	6-1/8	9-3/16
3 Port	633200000	643200000	653200000	663200000	683200000
3 Port w/ Interlock	633200010	643200010	653200010	663200010	683200010
4 Port	633200020	643200020	653200020	663200020	683200020
4 Port w/ Interlock	633200030	643200030	653200030	663200030	683200030
5 Port	633200040	643200040	653200040	663200040	683200040
5 Port w/ Interlock	633200050	643200050	653200050	663200050	683200050
7 Port	633200060	643200060	653200060	663200060	683200060
7 Port w/ Interlock	633200070	643200070	653200070	663200070	683200070

Tees

Mega manufactures a complete line of coaxial tee assemblies. These devices are available in either a matched or unmatched configuration.

Unmatched tees are used as a building block for notching elements, branch line couplers and hybrid couplers. These units include male connectors on 2 ports and are available in both aluminum and copper.

Matched tees are normally supplied for equal power division, however unequal power splits are readily available for special applications please consult our power divider page. Multi-stage transformers in the input leg provide low VSWR transformation over customer selected bandwidths.

Standard Tees are supplied with fixed style EIA flanges including male connectors on two ports and hardware kits with O-rings.



Size	7/8	1-5/8	3-1/8	4-1/16	6-1/8	9-3/16	12
Un-Matched	6212010X0	6312010X0	6412010X0	6512010X0	6612010X0	6812010X0	7012010X0
Matched	6212000X0	6312000X0	6412000X0	6512000X0	6612000X0	6812000X0	7012000X0

Copper is available in sizes 7/8 - 9", this is indicated by changing the 5th digit of the catalog number to a 1.

Transmission Line

EIA Coaxial transmission line is designed and fabricated to exacting electrical and mechanical specifications. Optimum power transfer for 50, 75 and 100 OHM systems is obtained by utilizing high conductivity copper inner conductors that are supported by Teflon insulators. The outer conductors are precision drawn heavy wall copper tubing.

For maximum economy and minimum weight, Mega recommends the use of aluminum outer conductors when a slight increase in attenuation will not adversely affect your subsystem requirements.

The more popular coaxial transmission line sizes are tabulated below. Mega also offers special diameter coaxial transmission line sections and square or rectangular transmission line sections for your special requirements.

In high radiation areas where Teflon is not suitable, special polymer insulators or ceramic supports are available for sizes up to 14" in diameter.



Size	7/8	1-5/8	3-1/8	4-1/16	6-1/8	9-3/16	12
	6203002X0	6303002X0	6403002X0	6503002X0	6603002X0	6803002X0	7003002X0

Copper is available in sizes 7/8 - 9", this is indicated by changing the 5th digit of the catalog number to a 1.

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Type N Directional Couplers



Mega's Type N couplers are ideal for your low power measurement needs. These low cost couplers are compact and designed to go inline wherever you have a Type N cable type connection. With flat coupling and high directivity over the typical 10% bandwidth, these devices are a high value option for system integration applications. Power handling is typically 200 Watts, or more depending upon frequency and coupling value chosen.

Typical Electrical Response	
Coupling Range	10 30 dB +/- 1dB
VSWR	1.05:1
Directivity	25 dB Nominal
Bandwidth	10%

	2 Watt SMA	5 Watt SMA	2 Watt Type N	10 Watt Type N
Monitor				
SMA	611600000	611600010		
Type N			611601020	611601030
Reflectometer				
SMA	611600100	611600110		
Type N			611601120	611601130

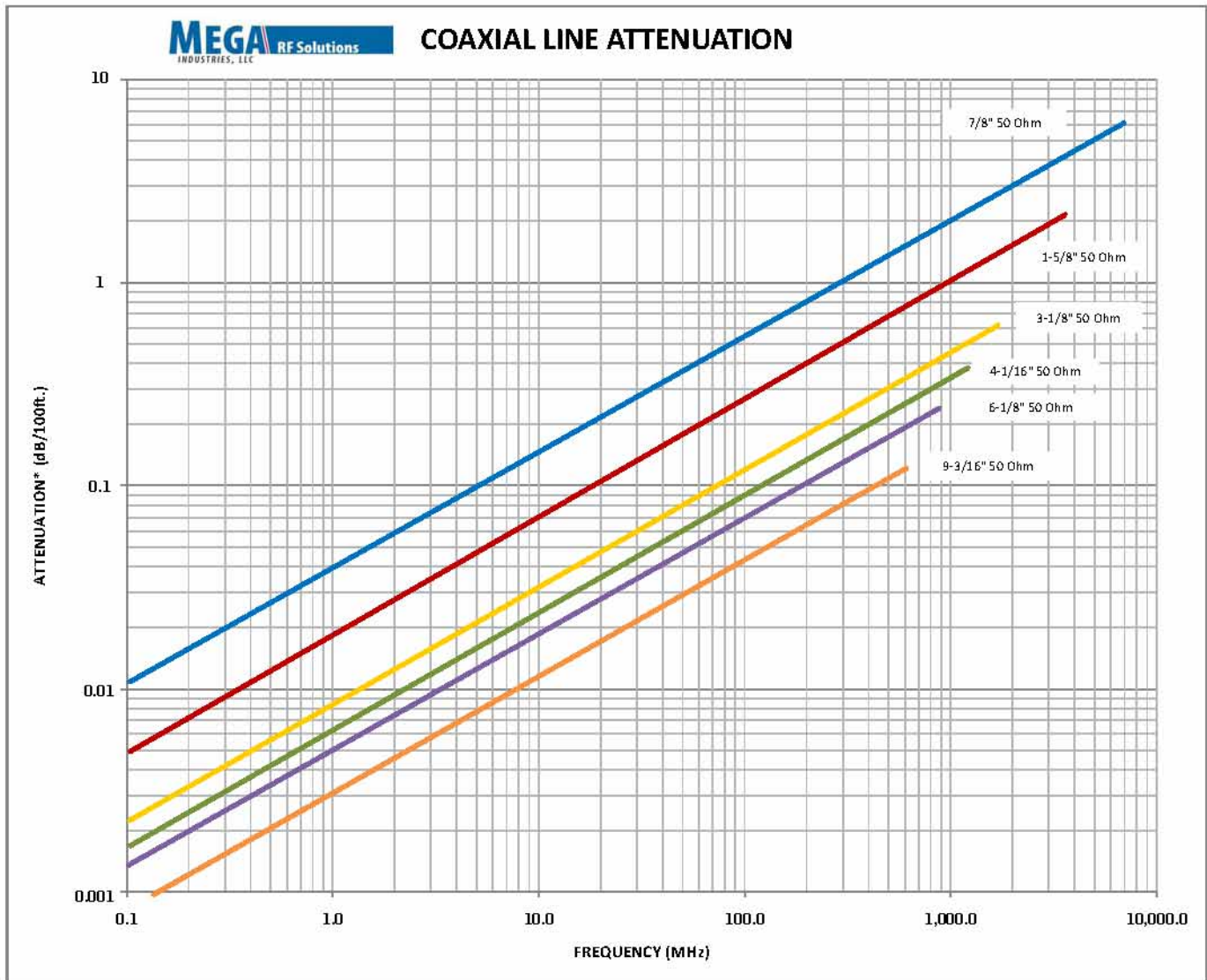
Notes:



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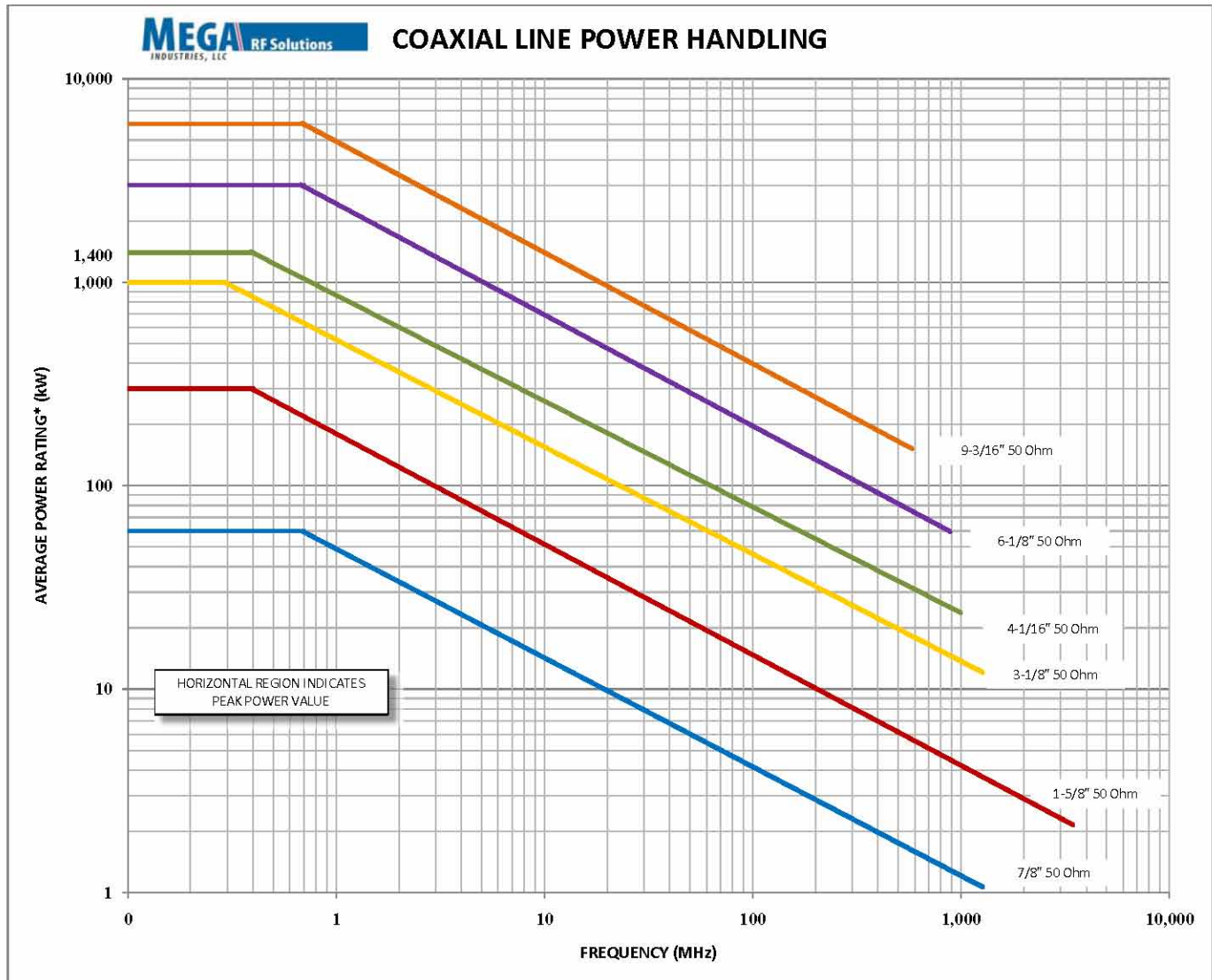
Coaxial Transmission Line Technical Data

Coaxial Line Attenuation



*These values are subject to the following standard conditions:
20°C (68°F) Ambient Temperature, 0kW Average Power,
VSWR 1.0:1, Dry Air @ Sea Level Atmospheric Pressure

Coaxial Line Power Handling



*These ratings assume the following standard conditions:
 40°C (104°F) Ambient Temperature, 100°C (212°C) Inner
 Conductor Temperature, VSWR 1.0:1, Dry Air @ Sea Level
 Atmospheric Pressure