Microwave Equipment &
Components of America

MECA Electronics, Inc.

Directional & Hybrid Couplers

Power Divider/Combiners

Circulators & Isolators

Jumpers & Adapters

Terminations

Attenuators

DC Blocks

Bias Tees

5G

Public Safety

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Issue #1

About MECA Electronics, Inc.

From Public Safety & Wireless to 5G & VSAT/SATCOM Millimeter-Wave Products

For over 57 years MECA Electronics (Microwave Equipment & Components of America) has served the RF/Microwave Industry with equipment and passive components operating up to 50 GHz, featuring products manufactured in the United States of America with a 36-month warranty! Also available, cost effective RF Parts On Demand globally manufactured products with a 1 year warranty!

MECA, as a leader in RF components and manufacturing recognizes the growing and expanding needs of our customers for higher frequency, smaller packaging and improved efficiency. MECA offers a family of High Quality Components to address these needs. Our components are specifically engineered to support the following market segments: Public Safety, Commercial Wireless including Rail & Transportation industries, 5G ready, Millimeter-Wave, Space, Defense markets. The portfolio includes Power Dividers, Couplers, Attenuators, Terminations, Isolators/Circulators, Bias Tee's & DC blocks. Available in a variety of connector styles; SMA, N, BNC, TNC, 7/16, 4.1/9.5, 4.3/10.0, 2.92 & 2.4 mm interfaces covering up to 50 GHz.

Public Safety / Rail & Transportation - Applications

Components and Equipment are designed for the challenging environmental conditions of the public safety, rail and transportation industries. Many of our products meet IP 67/68 ratings and are subjected to harsh winters (extremely low temperatures and Road Salt) and summers (hot and humid) under public safety applications. Others are subjected to jet fuel in airport applications. Our Rail products meets EN50155 "Railway Applications & Electronic Equipment used on rolling stock" which defines a variety of environmental, safety and performance criteria such as; vibration, shock, thermal cycling and various fuels/chemical exposures. These products Feature components encased in a NEMA 4 Stainless Steel enclosure fully capable of withstanding the harshest of environments.

Commercial Wireless - Applications

Low PIM Products and Equipment covering the 0.380-2.7 GHz range with industry leading PIM Specification as well as non-Low PIM components and equipment covering even broader frequency ranges to GHz. Featuring IP67/68 Low PIM Terminations/Attenuators with low thermal noise with no deration of power handling capacity to 85 C, thereby eliminating the need for increased ratings for greater field reliability and reduced serviceability cost(s). DAS Equipment Solutions are provided using our components. Additionally, we offer value added solutions incorporating our customer parts with our own or adding other custom parts that need to be fabricated or kitted.

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About MECA Electronics, Inc.

5G & VSAT/SATCOM Millimeter-Wave Components - Featuring Power Divider and Couplers covering 6-40 GHz with 2.92 & 2.4 mm interfaces along with supporting components such as Attenuators, Terminations, Bias Tee's, DC blocks and adapters. With octave & mulita-octave units covering 1-18 GHz with SMA interfaces all built by J-Standard certified Assemblers & Technicians. Many of our VSAT applications overlap into Defense Markets as noted below.

Aerospace, Defense & Space - Applications

Building upon 5G & VSAT Millimeter-Wave MECA also has extensive experience in Aerospace & Defense qualified components. With a variety of items in ground, air & space based communions where testing, qualifications and traceability requirements are essential & required. Featuring the ML series; designed to meet applicable portions of MIL-DTL-23971, MIL-DTL-15370, MIL-DTL-39030E and MIL-STD-202. The models are available with our standard screening process which incorporates a level of thermal screening combined with verification of electrical and mechanical performance features. Additionally they are available with enhance levels of screening for qualification and verification applications as required.

MECA continues to be a leading designer and manufacture of RF & Microwave Components and Equipment, rugged and reliably made in the USA since 1961. Also, offering MECA Electronics internally branded "RF Parts On Demand", cost effective globally manufactured products. MECA is a ISO9001:2015 registered corporation.

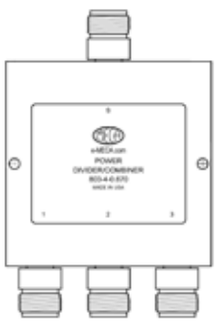
Table of Contents

Power Dividers/Combiners

2-way					
Series	**Split**	**Freq (GHz)**	**Connector**	**Max Power (W)**	**L" x W" x H" ***
802-X-0.252	2-way	0.005 - 0.500	SMA, N, TNC & BNC-F	2	2.00 x 2.00 x 0.75
H2X-0.260WWP	2-way	0.020 - 0.500	SMA & N-F	100	3.07 x 2.50 x 0.90
H2X-0.252WWP	2-way	0.050 - 0.500	SMA & N-F	100	3.07 x 2.50 x 0.90
H2X-0.460	2-way	0.400 - 0.520	SMA & N-F	80	2.00 x 2.50 x 1.00
802-2-0.600-M01	2-way	0.400 - 0.800	SMA-F	20	2.00 x 2.00 x 0.75
802-2-0.670	2-way	0.380 - 0.960	SMA-F	40	2.00 x 2.00 x 0.75
802-4-0.600	2-way	0.400 - 0.800	N-F	20	2.00 x 2.00 x 0.75
802-4-0.670	2-way	0.380 - 0.960	N-F	40	2.00 x 2.00 x 0.75
H2X-0.670	2-way	0.380 - 0.960	SMA & N-F	80	2.50 x 2.50 x 1.00
H2X-0.900	2-way	0.800 - 1.000	SMA & N-F	80	1.50 x 2.50 x 1.00
802-2-0.900	2-way	0.800 - 1.000	SMA-F	20	2.00 x 1.50 x 0.44
802-4-0.900	2-way	0.800 - 1.000	N-F	20	2.00 x 2.00 x 0.75
3-way					
Series	**Split**	**Freq (GHz)**	**Connector**	**Max Power (Watts)**	**L" x W" x H" ***
803-X-0.252	3-way	0.005 - 0.500	SMA, N, TNC & BNC-F	2	2.50 x 2.75 x 0.75
H3N-0.460	3-way	0.400 - 0.520	N-F	120	3.00 x 3.50 x 1.00
803-2-0.600-M01	3-way	0.400 - 0.800	SMA-F	20	3.00 x 3.00 x 0.75
803-4-0.600	3-way	0.400 - 0.800	N-F	20	3.00 x 3.00 x 0.75
H3N-0.900	3-way	0.800 - 0.960	N-F	120	3.00 x 3.50 x 1.00
803-2-0.670	3-way	0.380 - 0.960	SMA-F	40	3.00 x 3.00 x 0.75
803-2-0.900	3-way	0.800 - 1.000	SMA-F	20	2.30 x 2.00 x 0.44
803-4-0.670	3-way	0.380 - 0.960	N-F	40	3.00 x 3.00 x 0.75
803-4-0.900	3-way	0.800 - 1.000	N-F	20	2.00 x 2.75 x 0.75
M3N-0.900	3-way	0.800 - 1.000	N-F	50	2.00 x 2.75 x 0.75

* Not including connectors

802-4-0.670



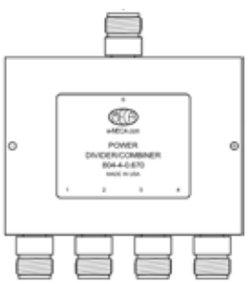
803-4-0.670

Theoretical power split (dB) for "n-way" power divider							
2-Way	3-Way	4-Way	6-Way	8-Way	9-Way	12-Way	16-Way
3.01	4.77	6.02	7.78	9.03	9.54	10.79	12.04

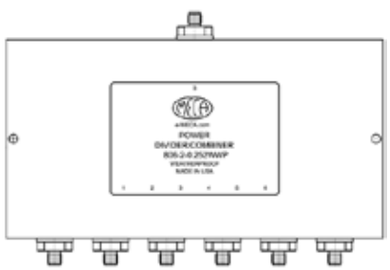
Power Dividers/Combiners

4-way					
Series	**Split**	**Freq (GHz)**	**Connector**	**Max Power (Watts)**	**L" x W" x H" ***
H4X-0.252WWP	4-way	0.005 - 0.500	SMA & N-F	100	4.00 x 4.50 x 0.90
804-X-0.252	4-way	0.005 - 0.500	SMA, N, TNC & BNC-F	2	3.00 x 4.00 x 0.75
H4N-0.460	4-way	0.400 - 0.520	N-F	100	3.50 x 4.50 x 1.00
804-2-0.600-M01	4-way	0.400 - 0.800	SMA-F	20	3.00 x 4.00 x 0.75
804-4-0.600	4-way	0.400 - 0.800	N-F	20	3.00 x 4.00 x 0.75
H4N-0.900	4-way	0.800 - 1.000	N-F	100	2.00 x 4.50 x 1.00
804-2-0.670	4-way	0.380 - 0.960	SMA-F	40	3.00 x 4.00 x 0.75
804-2-0.900	4-way	0.800 - 1.000	SMA-F	20	3.60 x 2.50 x 0.44
804-4-0.670	4-way	0.380 - 0.960	N-F	40	3.00 x 4.00 x 0.75
804-4-0.900	4-way	0.800 - 1.000	N-F	20	2.00 x 4.00 x 0.75
6-way					
Series	**Split**	**Freq (GHz)**	**Connector**	**Max Power (Watts)**	**L" x W" x H" ***
806-X-0.252WWP	6-way	0.005 -0.500	N, SMA-F	2	6.72 x 3.54 x 0.75
8-way					
Series	**Split**	**Freq (GHz)**	**Connector**	**Max Power (Watts)**	**L" x W" x H" ***
808-2-0.252WWP	8-way	0.380 - 0.960	SMA-F	40	3.50 x 8.00 x 0.75
808-2-0.670-M01	8-way	0.380 - 0.960	SMA-F	40	3.50 x 8.00 x 0.75
808-4-0.252WWP	8-way	0.380 - 0.960	N-F	40	3.50 x 8.00 x 0.75
808-4-0.670	8-way	0.380 - 0.960	N-F	40	3.50 x 8.00 x 0.75
808-2-0.900	8-way	0.800 - 1.000	SMA-F	20	3.50 x 4.50 x 0.44

* Not including connectors



804-4-0.670



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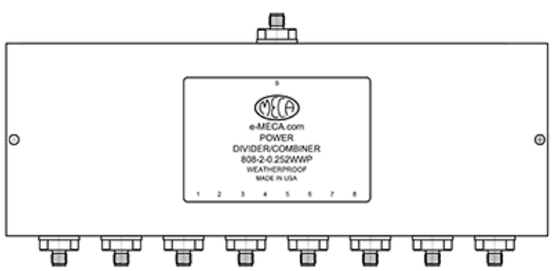

808-2-0.252WWP

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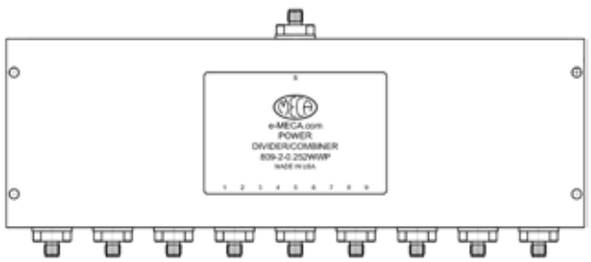
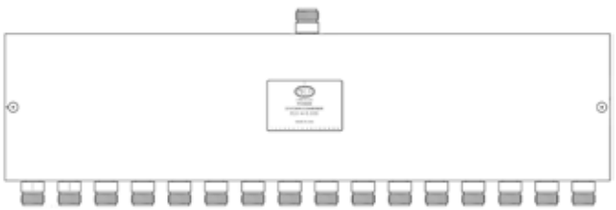
Power Dividers/Combiners

9-way					
Series	**Split**	**Freq (GHz)**	**Connector**	**Max Power (Watts)**	**L" x W" x H"**
809-2-0.252WWP	9-way	0.005 -0.500	SMA-F	2	3.10 x 9.50 x 0.82
809-4-0.252WWP	9-way	0.005 -0.500	N-F	2	3.10 x 9.50 x 0.82
12-way					
Series	**Split**	**Freq (GHz)**	**Connector**	**Max Power (Watts)**	**L" x W" x H"**
812-2-0.252WWP	12-way	0.005 -0.500	SMA-F	2	4.76 x 12.70 x 0.82
812-4-0.252WWP	12-way	0.005 -0.500	N-F	2	
16-way					
Series	**Split**	**Freq (GHz)**	**Connector**	**Max Power (Watts)**	**L" x W" x H"**
816-2-0.600-M01	16-way	0.400 - 0.800	SMA-F	20	4.00 x 16.5 x 0.75
816-4-0.600	16-way	0.400 - 0.800	N-F	20	4.00 x 16.5 x 0.75



809-2-0.252WWP

812-4-0.252WWP

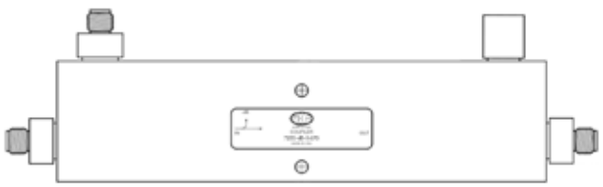


816-4-0.600-M01

Couplers / Dual Couplers

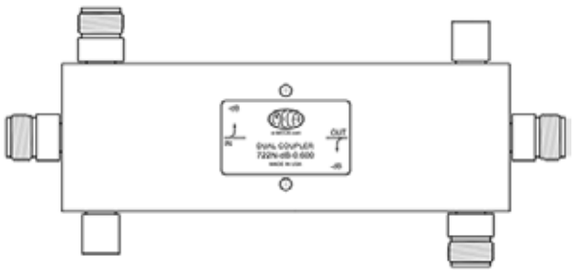
Series	Freq (GHz)	Coupling (dB)	Connector	L" x W" X D" *
715-dB-0.375	0.250 - 0.500	10, 20, 30 & 40	Type N-F	8.86 x 0.88 x 1.50
715S-dB-0.375	0.250 - 0.500	10, 20, 30 & 40	SMA-F	8.86 x 0.88 x 1.50
715-dB-0.600	0.400 - 0.800	6, 10, 20, 30 & 40	Type N-F	6.08 x 0.88 x 1.50
715-dB-0.670	0.380 - 0.960	6, 10, 20, 30 & 40	Type N-F	6.08 x 0.88 x 1.50
715S-dB-0.600	0.400 - 0.800	6, 10, 20, 30 & 40	SMA-F	6.08 x 0.88 x 1.50
715S-dB-0.670	0.380 - 0.960	6, 10, 20, 30 & 40	SMA-F	6.08 x 0.88 x 1.50
780-dB-0.750	0.500 - 1.000	6, 10, 20 & 30	SMA-F	3.10 x 0.38 x 0.50
780-dB-1.200	0.800 - 1.600	10, 20 & 30	SMA-F	2.06 x 0.38 x 0.50
780-dB-1.250	0.500 - 2.000	6, 10, 20 & 30	SMA-F	3.60 x 0.38 x 0.60
722N-dB-0.600	0.400 - 0.800	10, 20, 30 & 40	Type N-F	6.08 x 0.88 x 2.00
722S-dB-0.600	0.400 - 0.800	10, 20, 30 & 40	SMA-F	6.08 x 0.88 x 2.00
722-dB-0.600	0.400 - 0.800	10, 20, 30 & 40	N & SMA-F	6.08 x 0.88 x 2.00
722N-dB-0.900	0.800 - 1.000	10, 20, 30 & 40	Type N-F	4.46 x 0.88 x 2.00
722S-dB-0.900	0.800 - 1.000	10, 20, 30 & 40	SMA-F	4.46 x 0.88 x 2.00
722-dB-0.900	0.800 - 1.000	10, 20, 30 & 40	N & SMA-F	4.46 x 0.88 x 2.00

* Less connectors

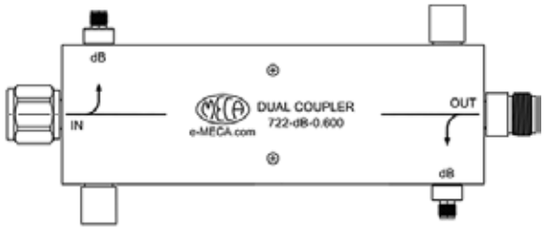


715S-dB-0.670

780-dB-1.250



722N-dB-0.600



722-dB-0.600

Average Power (Watts)				
Coupling Factor	**10 dB**	**20 dB**	**30 dB**	**40 dB**
722N Series	25	250	500	500
Theoretical Mainline Power Split Due to Coupling Factor (dB				
722N Series	0.912	0.0872	0.0086	0.0008

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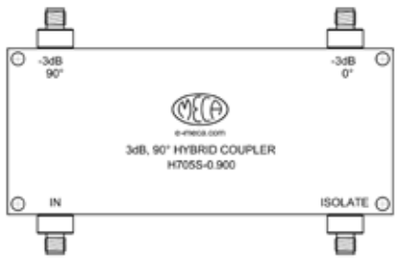
3dB Hybrid Couplers - 90°/180°

Series	Freq (GHz)	Power Handling	Connector	L" x W" X D*
705S-0.750	0.500 - 1.000	50	SMA-F	3.06 x 0.50 x 0.38
H705N-0.460	0.400 - 0.520	500	N-F	7.78 x 2.00 x 1.25
H705D-0.460	0.400 - 0.520	500	DIN-F	7.78 x 2.00 x 1.38
H705X-0.849	0.698 - 1.000	500	N,SMA & 7/16 DIN-F	4.65 x 2.00 x 1.0 *
H705X-0.900	0.800 - 1.000	500, 100, 500	N,SMA & 7/16 DIN-F	4.65 x 2.00 x 1.0 *
707X-0.900	0.810 - 0.960	100	SMA, N-F	3.00 x 3.00 x 0.82 *
700X-0.900	0.810 - 0.960	1000	7/16 DIN, N-F	7.53 x 1.02 *
705S-0.750	0.500 - 1.000	50	SMA-F	3.06 x 1.25 x 0.38
H705N-0.460	0.400 - 0.520	500	N-F	2.28 x 3.08 x 1.25
H705D-0.460	0.400 - 0.520	500	DIN-F	2.28 x 3.60 x 1.38
H705X-0.849	0.698 - 1.000	500	N,SMA & 7/16 DIN-F	4.65 x 3.08 x 1.0 *
H705X-0.900	0.800 - 1.000	500, 100, 500	N,SMA & 7/16 DIN-F	4.65 x 3.08 x 1.0 *

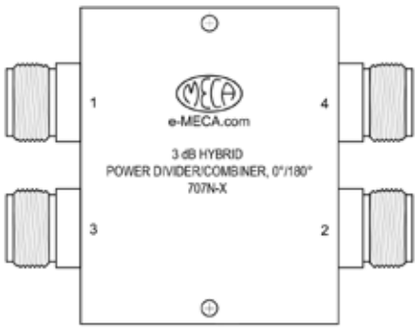
* Less connectors

H705D-0.460

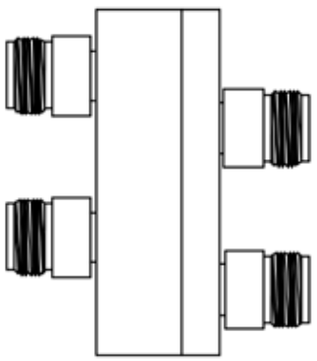


H705S-0.900

705S-0.750



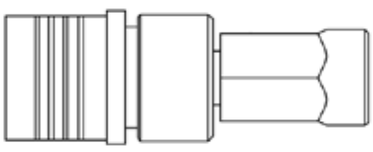
707N

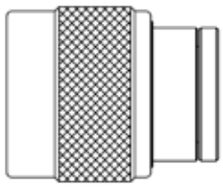


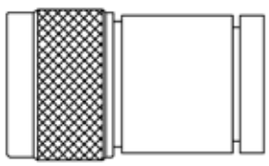
700X

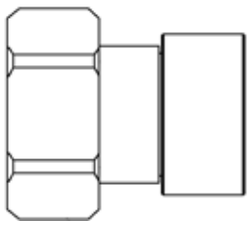
Terminations 1 - 2 Watts

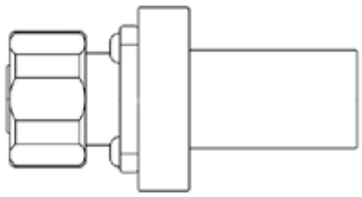
Max Power (Watts)	Series	Connector	Freq (GHz)	L" x OD" (Nom)
1	TQ1-3	QMA-M	Hz - 3.0	1.35 x 0.30
1	TN1-3	N-M	Hz - 3.0	0.99 x 0.82
1	TN1-6	N-M	Hz - 6.0	0.99 x 0.82
1	TN1-18	N-M	Hz - 18.0	0.99 x 0.82
1	462-1F3	SMA-M	Hz - 3.0	0.43 x 0.36
1	462-1	SMA-M	Hz - 18.0	0.33 x 0.36
1	462-1RP	RP SMA-M	Hz - 6.0	0.33 x 0.36
1	401-11A / -12A	7/16-M / F	Hz - 3.0	2.00 x 1.06
2	401-11 / -12	7/16 DIN-M / F	Hz - 3.0	2.00 x 1.06
2	464-1 / -2	SMA-M / F	Hz - 18.0	0.58 x 0.36
2	401-1F3	N-M	Hz - 3.0	1.50 x 0.82
2	401-1 / -2	N-M / F	Hz - 6.0	1.50 x 0.82
2	401-3 / -4	BNC-M / F	Hz - 6.0	1.30 x 0.60
2	401-5	TNC-M	Hz - 6.0	1.35 x 0.65
2	401-11 / -12	7/16 DIN M / F	Hz - 3.0	2.00 x 1.06
2	402-1 / -2	N-M / N-F	Hz - 12.4	1.50 x 0.82
1	411-16 / -17WWP	4.3 / 10.0 M / F	Hz - 4.0	2.40 x 1.25
2	412-16 / -17WWP	4.3 / 10.0 M / F	Hz - 4.0	2.40 x 1.25
2	412-14 / -15WWP	4.9 / 9.5 M / F	Hz - 4.0	2.40 x 1.25

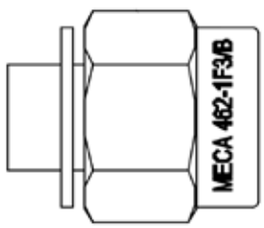

TQ1-3


TN1-3


401-1


401-11


411-16WWP



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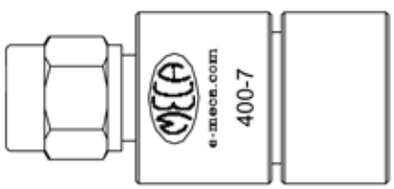
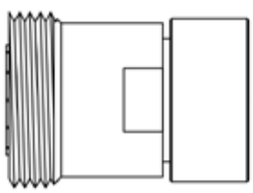
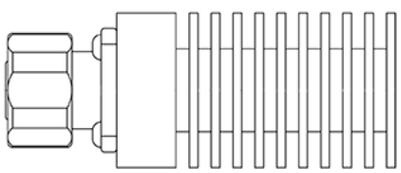
Terminations 5 - 25 Watts

Max Power (Watts)	Series	Connector	Freq (GHz)	L" x OD" (Nom)
5	400-1 / -2	N-M / F	Hz - 12.4	1.50 x 0.82
5	400-7 / -8	SMA-M / F	Hz - 18.0	1.12 x 0.50
5	405-X	N, BNC, TNC M / F	Hz - 3.0	1.50 x 0.82
5	405-11 / -12	7/16 DIN M / F	Hz - 3.0	2.00 x 1.06
5	400-11 / -12	7/16 DIN M / F	Hz - 7.5	2.00 x 1.06
5	405-14 / -15WWP	4.1/9.5 M / F	Hz - 4.0	2.40 x 1.25
5	405-16 / -17WWP	4.3/10.0 M / F	Hz - 4.0	2.40 x 1.25
10	417-1 / -2	SMA-M / F	Hz - 18.0	1.97 x 0.64
10	417-11A / -12A	7/16 DIN M / F	Hz - 3.0	2.00 x 1.06
10	417-14 / -15WWP	4.1/9.5 M / F	Hz - 4.0	3.15 x 1.25
10	417-16 / -17WWP	4.3/10.0 M / F	Hz - 4.0	3.15 x 1.25
15	403-X	N, SMA M / F	Hz - 12.4	2.50 x 1.25
25	407-X	N, SMA M / F	Hz - 6.0	2.77 x 1.62
25	407-11 / -12	DIN-M / F	Hz - 4.0	4.03 x 1.62

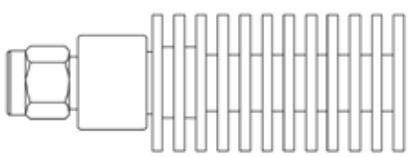


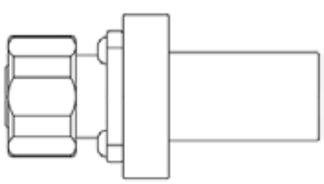
400-7

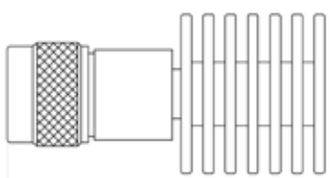

400-12

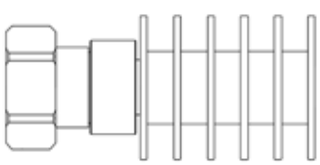

417-16WWP

405-1


417-1

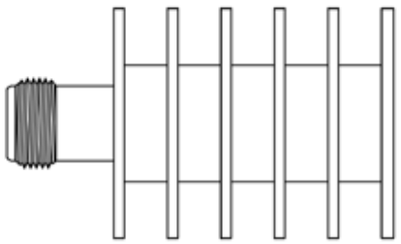

405-16WWP


403-1

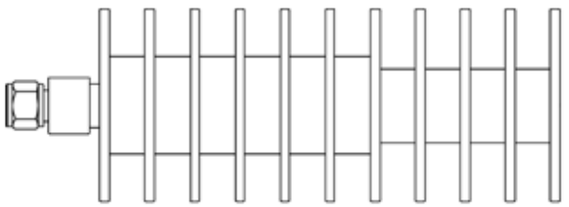

407-11

Terminations 35 - 500 Watts

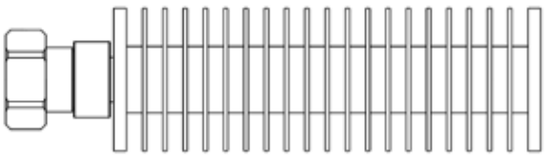
Max Power (Watts)	Series	Connector	Freq (GHz)	L" x OD" (Nom)
35	404-X	N, SMA, M/F	Hz - 6.0	2.77 x 1.62
35	404-11 / -12	7/16 DIN-M / F	Hz - 4.0	4.03 x 1.62
50	480-X	N, SMA, M/F	Hz - 6.0	4.67 x 1.62
50	480-11 / -12	7/16 DIN-M / F	Hz - 4.0	5.63 x 1.62
50	480-M02	N-M	Hz - 6.0	4.67 x 1.30
75	485-1 / -2	N-M / F	Hz - 4.0	6.79 x 2.00
75	485-11 / -12	7/16 DIN-M / F	Hz - 4.0	8.05 x 2.00
100	490-1 / -2	N-M / F	Hz - 4.0	6.79 x 2.73
100	490-11 / -12	7/16 DIN-M / F	Hz - 4.0	8.05 x 2.73
250	CTN-250-1 / -2	N-M / F	Hz - 3.0	2.25 x 2.30 x 1.06
500	CTN-500-1 / -2	N-M / F	Hz - 2.0	2.25 x 2.30 x 1.06



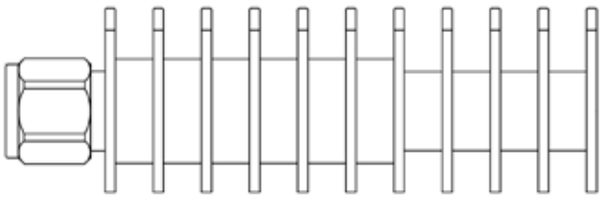
404-2



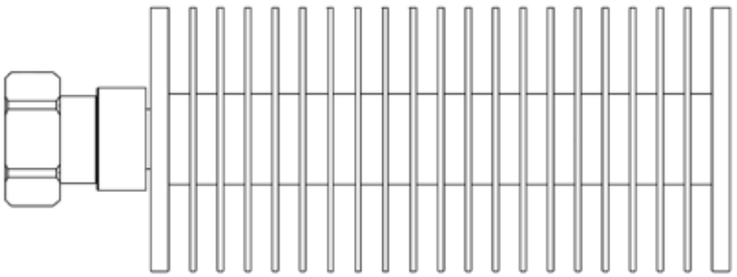
480-7



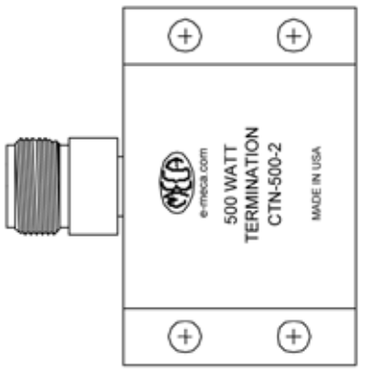
485-11



480-M02



490-11



CTN500-2

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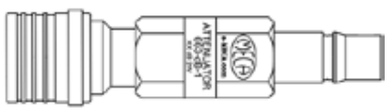
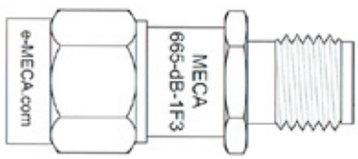
Attenuators 2 - 5 Watts

Max Power (Watts)	Series	Attenuation (dB)	Freq (GHz)	Connector	L" x OD"
2	612-dB-3RP	0 - 32	Hz - 4.0	RP-TNC M / F	1.82 x 0.59
2	605-dB-1F3	3, 6, 10, 20 & 30	Hz - 6.0	N M / F	1.76 x 0.82
2	605-dB-1	3, 6, 10, 20, 30 & 40	Hz - 6.0	N M / F	1.76 x 0.82
2	605-dB-1	50 & 60	Hz - 6.0	N M / F	2.04 x 0.82
2	605-dB-3	3, 6, 10, 20, 30 & 40	Hz - 6.0	TNC M / F	1.36 x 0.63
2	662-dB-1	0 - 32	Hz - 4.0	SMA M / F	1.31 x 0.34
2	662-dB-1RA	0 - 32	Hz - 4.0	SMA M/F (Right Angle)	1.34 x 1.65
2	663-dB-1	0 - 32	Hz - 4.0	QMA M / F	1.63 x 0.41
2	665-dB-1F3	3, 6, 10, 20 & 30	Hz - 6.0	SMA M / F	0.86 x 0.312
2	665-dB-1F3	30 & 40	Hz - 6.0	SMA M / F	0.97 x 0.312
2	665-dB-1F3RP	3,6,10,20 & 30	Hz - 6.0	RP-SMA M / F	0.86 x 0.312
2	665-dB-1F3RP	30 & 40	Hz - 6.0	RP-SMA M / F	0.97 x 0.312
2.5	615-dB-1	30, 40, 50	Hz - 2.5	N M / F	3.20 x 1.00
5	602-dB-1	3, 6, 10, 20, 30 & 40	Hz - 6.0	SMA M / F	1.20 x 0.61
5	603-dB-1	3, 6, 10, 20, 30 & 40	Hz - 6.0	N M / F	1.9 x 0.82
5	603-dB-11	3, 6, 10, 20, 30 & 40	Hz - 2.5	7/16 DIN M / F	2.98 x 1.25

605-dB-1F18

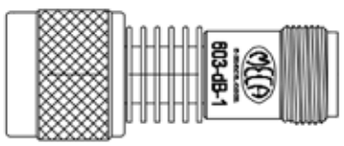


663-dB-1

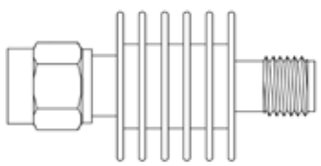


665-dB-1F3

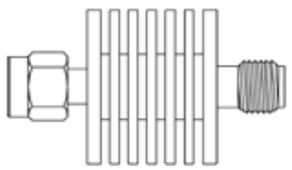
612-dB-3RP



603-dB-1



602-dB-1

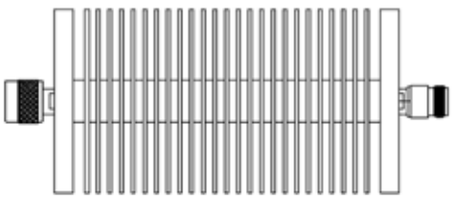


604-dB-1

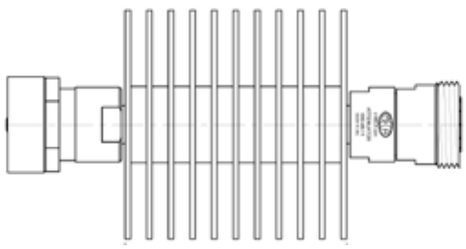
Input Power Attenuated						
0 dB	**1 dB**	**2 dB**	**3 dB**	**4 dB**	**5 dB**	**6 dB**
0 %	20.57 %	36.9 %	49.88 %	60.19 %	68.38 %	74.88 %
7 dB	**8 dB**	**9 dB**	**10 dB**	**20 dB**	**30 dB**	**40 dB**
80.05 %	84.15 %	87.41 %	90 %	99 %	99.9 %	99.99 %

Attenuators 10 - 150 Watts

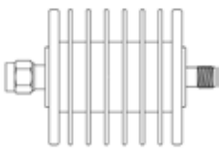
Max Power (Watts)	Series	Attenuation (dB)	Freq (GHz)	Connector	L" x OD"
10	604-dB-1	3, 6, 10 & 20	Hz - 6.0	SMA M / F	1.70 x 1.0
10	604-dB-1	30 & 40	Hz - 6.0	SMA M / F	1.95 x 1.0
10	606-dB-1F4	3, 6, 10, 20, 30 & 40	Hz - 4.0	N M / F	3.08 x 1.25
10	606-dB-11	3, 6, 10, 20, 30 & 40	Hz - 2.5	7/16 DIN M / F	3.73 x 1.25
20	630-dB-1F4	3, 6, 10, 20 & 30	Hz - 4.0	N M / F	3.62 x 1.75
20	630-dB-1F4	40 & 50	Hz - 3.0	N M / F	3.62 x 1.75
20	631-dB-1	3, 6, 10, 20, 30 & 40	Hz - 6.0	SMA M / F	2.33 x 1.50
25	635-dB-11	3, 6, 10, 20, 30 & 40	Hz - 4.0	7/16 DIN M / F	4.77 x 1.50
50	650-dB-1F4	3, 6, 10, 20, 30 & 40	Hz - 4.0	N M / F	3.62 x 2.25
50	650-dB-11	3, 6, 10, 20, 30 & 40	Hz - 4.0	7/16 DIN M / F	5.98 x 1.62
100	690-dB-1	3, 6, 10, 20, 30 & 40	Hz - 3.0	N M / F	8.0 x 3.50
100	BRK690-dB-1	3, 6, 10, 20, 30 & 40	Hz - 3.0	N M / F	8.0 x 8.31
100	690-dB-11	3, 6, 10, 20, 30 & 40	Hz - 4.0	7/16 DIN M / F	5.98 x 3.0
150	697-dB-1	3, 6, 10, 20, 30 & 40	Hz - 3.0	N M/F M / F	8.00 x 4.50
150	BRK697-dB-1	3, 6, 10, 20, 30 & 40	Hz - 3.0	N M / F	7.97 x 8.31



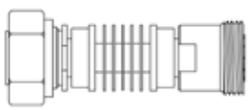
690-dB-1



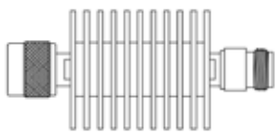
690-dB-11



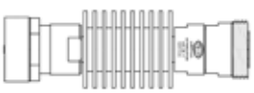
631-dB-1



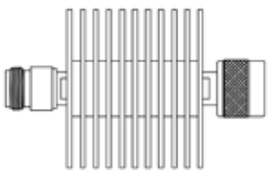
606-dB-11



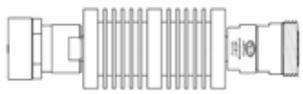
630-dB-1



635-dB-11



650-dB-1F4



650-dB-11

Input Power Attenuated						
0 dB	**1 dB**	**2 dB**	**3 dB**	**4 dB**	**5 dB**	**6 dB**
0 %	20.57 %	36.9 %	49.88 %	60.19 %	68.38 %	74.88 %
7 dB	**8 dB**	**9 dB**	**10 dB**	**20 dB**	**30 dB**	**40 dB**
80.05 %	84.15 %	87.41 %	90 %	99 %	99.9 %	99.99 %

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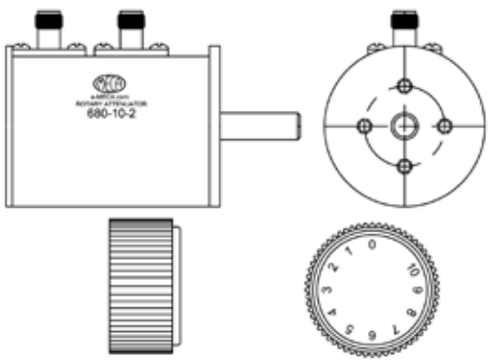
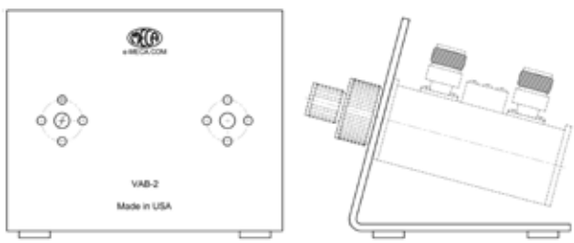
Variable Step Attenuators

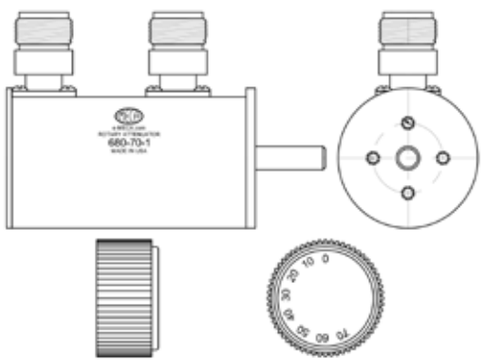
Max Power (Watts)	Series	Attenuation	Freq (GHz)	Connector	L" x OD"
2	680-10-1	0-10 dB 1dB steps	Hz - 2.4	N-F	3.42 x 1.50
2	680-10-2	0-10 dB 1dB steps	Hz - 2.2	SMA-F	2.75 x 1.50
2	680-70-1	0-70 dB 10dB steps	Hz - 2.2	N-F	3.42 x 1.50
2	680-70-2	0-70 dB 10dB steps	Hz - 2.2	SMA-F	3.42 x 1.50
2	680-80-1	0-80 dB 10dB steps	Hz - 2.5	N-F	4.26 x 1.50
2	680-80-2	0-80 dB 10dB steps	Hz - 2.5	SMA-F	4.26 x 1.50
2	685-30-1	0-30 dB 1dB steps	Hz - 2.0	N-F	4.72 x 1.50
2	685-30-2	0-30 dB 1dB steps	Hz - 2.0	SMA-F	4.72 x 1.50
2	685-50-1	0-50 dB 1dB steps	Hz - 2.5	N-F	5.38 x 1.50
2	685-50-2	0-50 dB 1dB steps	Hz - 2.5	SMA-F	5.38 x 1.50
2	685-110-1	0-110 dB 1dB steps	Hz - 2.0	N-F	5.38 x 1.50
2	685-110-2	0-110 dB 1dB steps	Hz - 2.0	SMA-F	5.38 x 1.50
N/A	VAB-1	Benchtup Bracket	N/A	N/A	4.13 x 3.00
N/A	VAB-2	Dual Benchtup Bracket	N/A	N/A	4.13 x 5.00



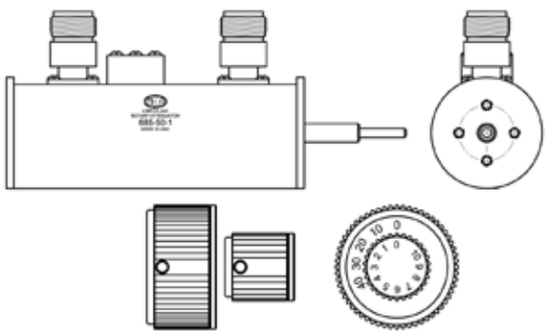
680-10-2



VAB-2



680-70-1

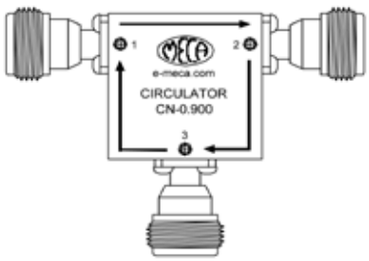


685-50-1

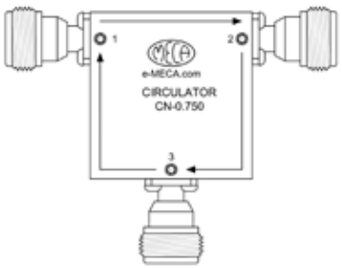
Circulators

Max Power (Watts)	Series	Connector	Freq (GHz)	Isolation (Typ)	L" x W" X D" *
500W	CN-0.600	N-F	0.542 - 0.656	20	2.75 x 2.94 x 1.25
250W	CN-0.750	N-F	0.700 - 0.800	20	1.58 x 1.62 x 0.73
250W	CS-0.750	SMA-F	0.700 - 0.800	20	1.58 x 1.62 x 0.73
100W	CN-0.849	N-F	0.698 - 1.000	18	1.58 x 1.62 x 0.73
100W	CS-0.849	SMA-F	0.698 - 1.000	18	1.58 x 1.62 x 0.73
250W	CN-0.900	N-F	0.800 - 1.000	23	1.25 x 1.25 x 0.73
250W	CS-0.900	SMA-F	0.800 - 1.000	23	1.25 x 1.25 x 0.73

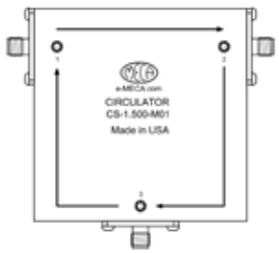
* Not including connectors



CN-0.900



CN-0.750



CS-1.500-M01

Isolators

Max Power (Watts)	Series	Connector	Freq (GHz)	Isolation (Typ)	L" x W" X D" *
2W	IN-0.750	N-F	0.700 - 0.800	20	1.58 x 1.62 x 0.73
2W	IS-0.750	SMA-F	0.700 - 0.800	20	1.58 x 1.62 x 0.73
2W	IN-0.849	N-F	0.698 - 1.000	20	1.58 x 1.62 x 0.73
2W	IS-0.849	SMA-F	0.698 - 1.000	18	1.58 x 1.62 x 0.73
2W	IN-0.900	N-F	0.800 - 1.000	23	1.25 x 1.25 x 0.73
2W	IS-0.900	SMA-F	0.800 - 1.000	23	1.25 x 1.25 x 0.73
Dual Junction Isolator - Weatherproof					
100W	I2N-0.835WWP	N-F	0.824 - 0.849	40	3.41 x 2.43 x 0.89
100W	I2S-0.835WWP	SMA-F	0.824 - 0.829	40	3.41 x 2.43 x 0.89

* Not including connectors

I2N-0.835WWP


IN-1.400


IS-0.849

MECA Electronics, Inc.
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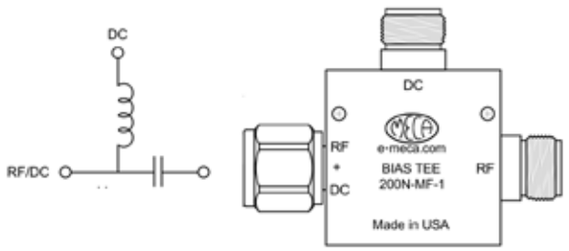
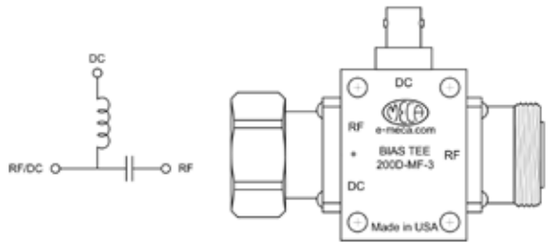
Bias Tees & Diplexers/Cross Band Couplers

Series	Freq (GHz)	Connector	Power	L" x W" x D"
205X-XX-X	0.001 - 0.100	N, SMA, TNC, BNC	10W RF, 30 VDC/ 1A	1.68 x 1.68 x 0.88*
205S-FF-2-M01	0.010 - 2.500	SMA-F	5W RF, 100 VDC/ 4A	1.41 x 1.57 x 0.55
200X-XX-X	0.500 - 2.500	N, SMA, TNC, BNC	300W RF, 100 VDC/ 7A	1.68 x 1.68 x 0.88*
200D-XX-X	0.500 - 2.500	7/16 DIN	300W RF, 100 VDC/ 7A	1.39 x 1.88 x 1.55

* Not including connectors



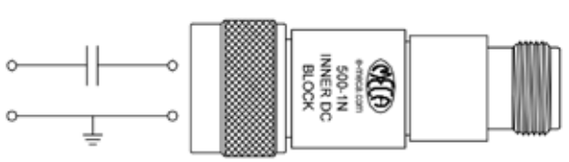
200N-MF-1



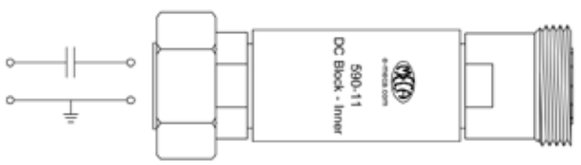
200D-MF-3

DC Blocks

Series	Type	Connector	Freq (GHz)	Max Power (Watts)	L" x OD"
500-1B	Inner	BNC M / F	0.400 - 3.000	100 watts	1.82 x 0.56
500-1N	Inner	N M / F	0.400 - 3.000	100 watts	2.20 x 0.82
500-1S	Inner	SMA M / F	0.400 - 3.000	80 watts	1.31 x 0.334
500-1T	Inner	TNC M / F	0.400 - 3.000	100 watts	1.82 x 0.56
500-1TRP	Inner	TNC M / F	0.400 - 3.000	100 watts	1.82 x 0.56
500-1Q	Inner	QMA M / F	0.400 - 3.000	80 watts	1.63 x 0.41
590-11	Inner	7/16 DIN M / F	0.400 - 2.500	500watts	4.15 x 1.25
501-1B	Outer	BNC M / F	0.400 - 4.000	200 volts	1.60 x 0.56
501-1N	Outer	N M / F	0.010 - 18.000	200 volts	1.91 x 0.82
501-1S	Outer	SMA M / F	0.010 - 18.000	200 volts	1.20 x 0.50
501-1T	Outer	TNC M / F	0.010 - 18.000	200 volts	2.07 x 0.56
502-1B	Inner/Outer	BNC M / F	0.400 - 4.000	200 volts	1.60 x 0.56
502-1N	Inner/Outer	N M / F	0.010 - 18.000	200 volts	1.91 x 0.82
502-1S	Inner/Outer	SMA M / F	0.010 - 18.000	200 volts	1.20 x 0.50
502-1T	Inner/Outer	TNC M / F	0.010 - 18.000	200 volts	2.07 x 0.56



500-1N

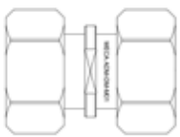


590-11

Adapters

MECA P#	Freq (GHz)	Description	L" x OD"
N to N			
ANM-NM-M01	DC - 11.0	N-M to N-M	1.60 x 0.91
ANF-NF-M01	DC - 12.4	N-F to N-F	1.75 x 0.66
ARNM-NF	DC - 11.0	N-M to N-F Right Angle	1.45 x 1.32
N to SMA			
ANM-SF-M01	DC - 18.0	N-M to SMA-F	1.24 x 0.91
ANM-SM-M01	DC - 18.0	N-M to SMA-M	1.29 x 0.91
ANF-SM-M01	DC - 11.0	N-F to SMA-M	1.36 x 0.66
ANF-SF-M01	DC - 12.4	N-F to SMA-F	1.32 x 0.87
SMA to SMA			
ASM-SM-M01	DC - 18.0	SMA-M to SMA-M	0.75 x 0.36
ASF-SF-M01	DC - 18.0	SMA-F to SMA-F	0.66 x 0.26
7/16 DIN to 7/16 DIN			
ADM-DM-M01	DC - 8.0	DIN-M to DIN-M	1.88 x 1.37
ADM-DF-M01	DC - 8.0	DIN-M to DIN-F	1.57 x 1.37
ADF-DF-M01	DC - 8.0	DIN-F to DIN-F	1.25 x 1.14
N to 7/16 DIN			
ANM-DM-M01	DC - 8.0	N-M to DIN-M	1.95 x 1.37
ANM-DF-M01	DC - 7.5	N-M to DIN-F	1.64 x 1.14
ANF-DM-M01	DC - 8.0	N-F to DIN-M	2.27 x 1.37
ANF-DF-M01	DC - 7.5	N-F to DIN-F	1.95 x 1.14
SMA to 7/16 DIN			
ADM-SM	DC - 7.5	DIN-M to SMA-M	1.28 x 1.39
ADM-SF	DC - 7.5	DIN-M to SMA-F	1.18 x 1.39
ADF-SM	DC - 8.0	DIN-F to SMA-M	1.30 x 1.14
ADF-SF	DC - 8.0	DIN-F to SMA-F	1.32 x 1.14
Bulkhead (s)			
ABNF-NF-M01	DC - 11.0	Blkd N-F to N-F	1.749 x 0.870
ABNF-NM-M01	DC - 11.0	Blkd N-F to N-M	2.052 x 0.870
ABDF-DF	DC - 0.75	Blk DIN-F to DIN-F	1.99 x 1.77

ADF-DF-M01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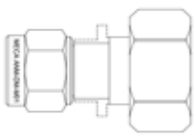
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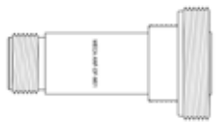
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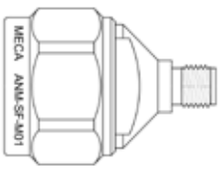
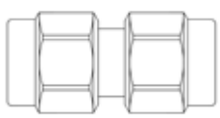
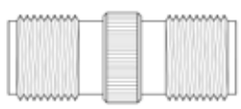


ANM-SF-M01

ANF-SF-M01


ASM-SM-M01


ASF-SF-M01

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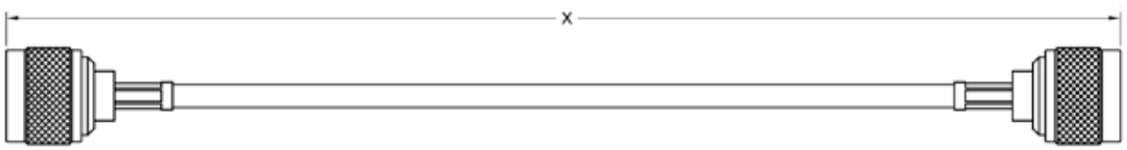
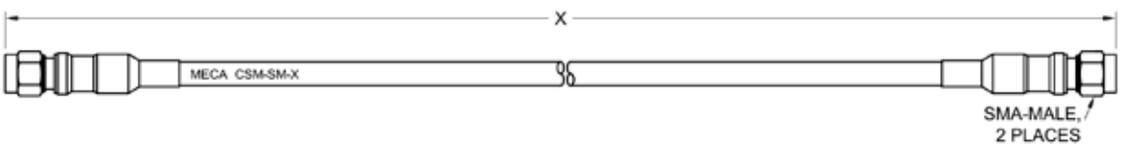
Series	Freq (GHz)	Connector	Cable Type *	L" **
CSM-SM-XX	Hz - 6.0	SMA-M to SMA-M	RG 142	12, 24, 36, 48, 72 & 120
CNM-NM-X	Hz - 6.0	N-M to N-M	RG 142	12, 24, 36, 48, 72 & 120
CSM-SM-XX-M01	Hz - 6.0	SMA-M to SMA-M	LMR 240	12, 24, 36, 48, 72 & 120
CNM-NM-XX-M01	Hz - 6.0	N-M to N-M	LMR 240	12, 24, 36, 48, 72 & 120
CSM-SM-XX-M02	Hz - 6.0	SMA-M to SMA-M	LMR 400	12, 24, 36, 48, 72 & 120
CNM-NM-XX-M02	Hz - 6.0	N-M to N-M	LMR 400	12, 24, 36, 48, 72 & 120

* Other cable types available in RG-178, LMR195, RG-402, RG-58, T401, T402 & SPP-250CCPC.

** Custom length available



CNM-NM-X



CSM-SM-X

Typical Loss / Ft*						
Cable Type	Min Bend Radius	OD	400 MHz	900 MHz	2 GHz	5.8 GHz
RG142	2.0	0.195	0.08	0.13	0.24	0.49
LMR240	2.5	0.240	0.05	0.08	0.12	0.21
LMR400	4.0	0.405	0.03	0.04	0.06	0.11

** Excluding interfaced and assembly loss

Regulatory Compliance

MECA Electronics is fully compliant with the following Government regulations:

DEFENSE FEDERAL ACQUISITION REGULATIONS (DFAR)

- Buy American Act
- Preference for Domestic Specialty Metals

IINTERNATIONAL TRAFFIC IN ARMS REGULATIONS

- (ITAR)

SECURITIES AND EXCHANGE COMMISION (SEC)

- Dodd-Frank Wall Street Reform and Consumer Protection Act

COUNTERFIT PARTS PROGRAM

MECA Electronics is the manufacturer and OEM for all products sold except for cables and adapters. All products including those distributed are in compliance with our in-house anti-counterfeit parts program.

EUROPEAN DIRECTIVE FOR RESTRICTION OF HAZARDOUS SUBSTANCES (RoHS).

All MECA Electronic products are currently compliant to the European Directive for Restriction of Hazardous Substances.
MECA Electronics has offered RoHS compliant products starting in 2004 with a phased in approach. At that time we began by clearly labeling all products as follows:

MECA products already compliant with the RoHS directive.

This labeling method continued until March of 2013. At which time since all standard products we produced are RoHS compliant including finished inventory, we began labeling all products that were not RoHS compliant only
(which typically represented nonstandard products).

Consequently, as of March 2013 all MECA Electronic products are RoHS compliant unless labeled otherwise as follows:

MECA products not compliant but pending with the RoHS directive

QUALITY SYSTEMS

As a result of our proactive approach designing in quality systems into our internal processes; we offer and stand behind our products with an industry leading workmanship warranty of 3 years as highlighted below.

- MECA Electronics Quality Assurance system is registered to ISO 9001.
- Our assembly operators are trained and certified to IPC standard J-STD-001.
- Rigorous parts control program incorporated into our manufacturing process. This includes but is not limited to manufacturing products without reliance on foreign materials and labor.
- All products are internally tested to insure compliance to our rated specifications prior to production manufacturing.
- Our products are 100% inspected and electrically tested to our published specifications.

36 Month Warranty!

We proudly offer a 36 month warranty on ALL of our rugged & reliable, US made RF/Microwave components. The quality and consistency of our products is why MECA is recognized by OEM's and Carriers as a primary source of supply for passive components.

Quality Policy

To provide continuous quality improvement and customer satisfaction - by building quality into every product - by every employee - every step of the way - for the benefit of our customers

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Terms and Conditions

1) Quotations:
Unless otherwise specified, all quotations are valid for a period of 90 days.

2) How to Order:
When placing an order, please state both the catalog number and description. For example: 715-20-1.500V, coupler, 20 dB, and 0.8 - 2.2 GHz. If any custom features are required, please contact our Application Engineers and a special part number will be assigned. Orders may be placed factory direct or through a MECA sales representative in your area. Orders will be accepted via phone, fax, e-mail or on-line pending receipt of a confirming purchase order (when applicable).

3) Payment Terms:
MECA accepts VISA, MasterCard and American Express. Net 30 days for customers with established accounts. International orders are prepaid in advance of shipment. In addition, a minimum deposit of 30% is required at order inception. All orders funded with credit cards are invoice and charged at order inception. Orders greater than $10,000.00 require a minimum deposit of 30% at order inception.

4) Minimum Orders:
The minimum order accepted is $100 domestic and $500 international.

5) Delivery:
Delivery is based on the prevailing conditions at the time of quotation or order. Agreements as to delivery are subject to contingencies of fire, accident, or cause of delay beyond the control of MECA Electronics, Inc.

6) Shipping:
All sales are F.O.B. Denville, NJ. When mode of transportation is not specified, shipment will be made via the best carrier using our discretion.

Preferred Methods of Shipment:
1. UPS ground, UPS 3-day air (orange), UPS 2-day air (blue), and next-day air (red).
2. Federal Express economy, standard or priority one.
3. UPS international services: UPS worldwide expedited (blue), UPS express (red).
4. Federal Express international services.

7) Quality Assurance:
MECA Electronics, Inc. is an ISO 9001:2015 certified company, certified by Intertek.

8) Source Inspection:
If source inspection is required, a surcharge of $1,200.00 per day per type of inspection is applicable. For example, if both customer and government source inspections are required, then there would be a charge of $1,200.00 for the customer inspection and a separate, additional charge of $1,200.00 for the government inspection.

9) Warranty:
MECA Electronics, Inc. warrants products of its manufacture to be free from defects in material and workmanship under conditions of normal use. If within 36 months of delivery, and after prepaid return by the owner, any MECA product that is found to be defective, MECA shall, at its option, repair or replace the defective item. This warranty does not apply to products that have been disassembled, misused, modified or subjected to conditions exceeding the applicable specifications or ratings. MECA reserves the right to make design changes, without notice, on any of its products without any obligation to make same or similar changes to items previously purchased. In no event does MECA assume liability for installation labor or for consequential damages. This warranty is the extent of the obligation or liability assumed by MECA, with respect to products, and no other warranty or guarantee is either expressed or implied.

10) Past Warranty Period:
MECA Electronics, Inc. products that have exceeded the 36 month warranty period and are returned to the factory for repair shall be repaired or replaced at a determined cost billed to the customer. The customer shall receive an estimate of the repair cost prior to effecting repairs.

11) Returned Material:
All returned items are inspected upon receipt for quantity, physical condition and electrical function. All claims for shortage must be made within thirty (30) days of date of shipment from MECA's facility. Title to goods passes to the buyer upon delivery to carrier, and risk of loss or damage shall thereafter rest with the buyer. The buyer must make claims for damage or loss while material is in transit. Returned products will not be accepted without a Return Material Authorization (RMA) number. This number may be obtained by calling our Customer Service Department (see below). Freight charges for returned material are the responsibility of the buyer. In addition, an evaluation fee will be charged to the buyer to cover inspection and testing cost for any item returned by the buyer that is found to be within specifications and/or otherwise deemed to be within the terms of the original purchase.

12) Restocking Charge:
Cancelled orders and/or returned items are subject to a 25% restocking charge (of sale price) or a $125.00 minimum charge per item (whichever is greater) for standard catalog items. This charge may vary at the discretion of MECA Electronics, Inc. depending on the amount of materials on order at the time of cancellation and the resulting cancellation charges from our supply chain. All sales are final for non-catalog items.

13) Federal Manufacturing Code: 22424

14) MECA Electronics, Inc. Contact Information
For Sales, Applications, Warranty, and Returns, contact MECA Electronics' Customer Service Department at 973-625-0661.

15) Return Address

MECA Electronics, Inc.
Attention: RMA#XXXXX*
459 East Main Street,
Denville, NJ 07834-2515
Phone # (973)-625-0661

*Please note that no returns will be accepted without an RMA number

www.e-MECA.com

RF/Microwave Conversion Tables and Formulas

Power Conversion									
dBm	Watts	dBm	Watts	dBm	Watts	dBm	Watts	dBm	Watts
0	1.0 mW	13	20 mW	26	398 mW	39	8.0 W	52	158 W
1	1.3 mW	14	25 mW	27	500 mW	40	10 W	53	200 W
2	1.6 mW	15	32mW	28	630 mW	41	13 W	54	251 W
3	2.0 mW	16	40 mW	29	800 mW	42	16 W	55	316 W
4	2.5 mW	17	50 mW	30	1.0 W	43	20 W	56	398 W
5	3.2 mW	18	63 mW	31	1.3 W	44	25 W	57	501 W
6	4 mW	19	79 mW	32	1.6 W	45	32 W	58	631 W
7	5 mW	20	100 mW	33	2.0 W	46	40 W	59	794 W
8	6 mW	21	126 mW	34	2.5 W	47	50 W	60	1000 W
9	8 mW	22	158 mW	35	3.2 W	48	63.1 W	61	1260 W
10	10 mW	23	200 mW	36	4.0 W	49	79.4 W	62	1580 W
11	13 mW	24	250 mW	37	5.0 W	50	100 W	63	2000 W
12	16mW	25	316 mW	38	6.3 W	51	126 W	64	2510 W

dBm to watts: $dBm = 10\log_{10} mW$

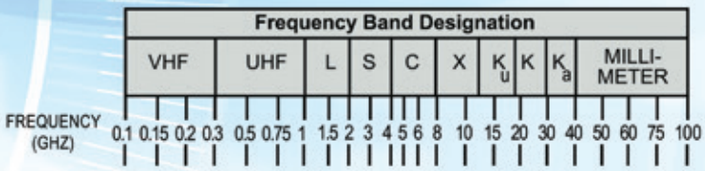
VSWR vs Return Loss									
VSWR	RL(dB)	VSWR	RL(dB)	VSWR	RL(dB)	VSWR	RL(dB)	VSWR	RL(dB)
1.001	66.025	1.120	24.943	1.320	17.207	2.400	7.707	9.000	1.938
1.002	60.009	1.130	24.298	1.330	16.997	2.500	7.360	9.500	1.835
1.003	56.491	1.140	23.686	1.340	16.755	2.600	7.044	10.000	1.743
1.004	53.997	1.150	23.127	1.350	16.540	2.700	6.755	11.000	1.584
1.005	52.063	1.160	22.607	1.400	15.563	2.800	6.490	12.000	1.451
1.006	50.484	1.170	22.120	1.450	14.719	2.900	6.246	13.000	1.339
1.007	49.149	1.180	21.664	1.500	13.979	3.000	6.021	14.000	1.243
1.008	47.993	1.190	21.234	1.550	13.324	3.250	5.524	15.000	1.160
1.009	46.975	1.200	20.828	1.600	12.793	3.500	5.105	20.000	0.869
1.010	46.064	1.210	20.443	1.650	12.207	3.750	4.747	25.000	0.695
1.020	40.086	1.220	20.079	1.700	11.725	4.000	4.437	30.000	0.579
1.030	36.607	1.230	19.732	1.750	11.285	4.500	3.926	35.000	0.496
1.040	34.151	1.240	19.401	1.800	10.881	5.000	3.522	40.000	0.434
1.050	32.256	1.250	19.085	1.850	10.509	5.500	3.194	45.000	0.386
1.060	30.714	1.260	18.783	1.900	10.163	6.000	2.923	50.000	0.347
1.070	29.417	1.270	18.493	1.950	9.842	6.500	2.694	60.000	0.290
1.080	28.299	1.280	18.216	2.000	9.542	7.000	2.499	70.000	0.248
1.090	27.318	1.290	17.949	2.100	8.999	7.500	2.330	80.000	0.217
1.100	26.444	1.300	17.692	2.200	8.519	8.000	2.183	90.000	0.193
1.110	25.658	1.310	17.445	2.300	8.091	8.500	2.053	100.000	0.174

VSWR to return loss: $RL(dB) = 20\log_{10}\left(\frac{VSWR + 1}{VSWR - 1}\right)$

% Input Power Attenuated			
dB	%	dB	%
1	20.57	12	93.70
2	36.90	13	94.98
3	49.88	14	96.02
4	60.19	15	96.84
5	68.38	16	97.58
6	74.88	17	98.00
7	80.05	18	98.42
8	84.15	19	98.74
9	87.41	20	99.00
10	90.00	30	99.90
11	92.06	40	99.99

Theoretical Power Split (dB) for "n-way" Power Divider							
2-Way	3-Way	4-Way	6-Way	8-Way	9-Way	12-Way	16-Way
3.01	4.77	6.02	7.78	9.03	9.54	10.79	12.04

Attenuation (db) $= 10\log_{10} \frac{P_{Input}}{P_{Output}}$



Theoretical Mainline Power Split Due to Coupling Factor (dB)								
Coupling Factor	40 dB	30 dB	20 dB	15 dB	10 dB	8 dB	6 dB	3 dB
Single	0.0004	0.0043	0.0436	0.140	0.4560	0.749	1.2560	3.01
Dual	0.0008	0.0086	0.0872	0.28	0.9120	1.498	2.5120	~

iBwave

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Microwave Equipment & Components of America

The Professional's Choice for RF/Microwave Passive Components

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Microwave Equipment &
Components of America

MECA

From Public Safety & Wireless to 5G & VSAT/SATCOM Millimeter-Wave Products

For over 56 years MECA Electronics (Microwave Equipment & Components of America) has served the RF/Microwave Industry with equipment and passive components operating up to 50 GHz, featuring products manufactured in the United States of America with a 36-month warranty!

MECA, as a leader in RF components and manufacturing recognizes the growing and expanding needs of our customers for higher frequency, smaller packaging and improved efficiency. MECA offers a family of High Quality Components to address these needs.

Our components are specifically engineered to support the following market segments: Public Safety, Commercial Wireless including Rail & Transportation industries, 5G ready, Millimeter-Wave, Space, Defense markets. The portfolio includes Power Dividers, Couplers, Attenuators, Terminations, Isolators/Circulators, Bias Tee's & DC blocks. Available in a variety of connector styles; SMA, N, BNC, TNC, 7/16, 4.1/9.5, 4.3/10.0, 2.92 & 2.4 mm interfaces covering up to 50 GHz.

MECA continues to be a leading designer and manufacture of RF & Microwave Components and Equipment, rugged and reliably made in the USA since 1961. Also, offering MECA Electronics internally branded "RF Parts On Demand", cost effective globally manufactured products. MECA is a ISO9001:2015 registered corporation.

5G

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