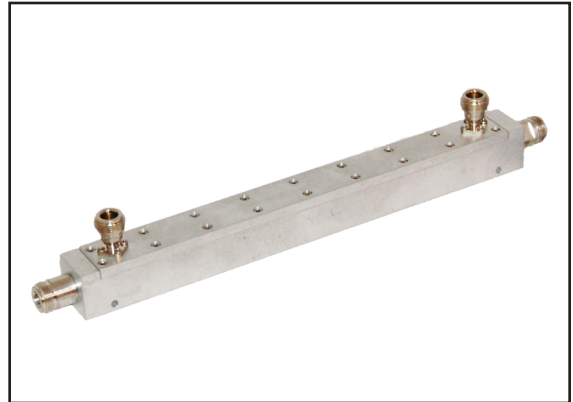


Made in USA

C1-A60E-05, 08, 10, 15, 20, 30 dB

SPECIFICATION	VALUE
Frequency:	400MHz - 13000MHz
Impedance:	50Ω
Intermodulation IM3:	-160dBc (2x43dBm Carrier)
Maximum Power	
Average:	500W
Peak:	1kW
Material	
Housing:	Aluminum
Inner Conductors & Connectors:	Brass, Silver Plated
Finish	Paint, RAL1013 (Oyster White)
DC Continuity	
Input ↔ Output:	RF and DC Only
Input ↔ Coupled Port:	RF Only



The Model C1-A60E Single Directional Coupler covers applications in the 400 - 13,000 MHz frequency range with high power, low insertion loss, very high directivity, and excellent PIM performance that is inherent with airline coaxial design and construction. The unit is designed for mode free performance up to 13 GHz. The unique multisection suspended coaxial construction yields the lowest possible insertion loss with high power handling.

C1-A60E-XX-XXX-X

Coupling: 05, 08, 10, 15, 20, 30
 Mainline Connectors*: S, N, 43
 Coupled Connector*: S, N, 43
 Isolated Connector*: S, N, 43
 Termination: T**

*See table for valid connector options per dB level
 **Isolated connector type determines termination type
 SMA: 1 Watt
 Type N, 4.3-10: 2 Watt
 If -T is omitted from part number, no termination will be included.

***Coupling port specifications for the 5dB model apply up to 6GHz only

MODEL	C1-A60E-05-XXX	C1-A60E-08-XXX	C1-A60E-10-XXX	C1-A60E-15-XXX	C1-A60E-20-XXX	C1-A60E-30-XXX
Frequency Range: (GHz)	0.4-13.0	0.4-13.0	0.4-13.0	0.4-13.0	0.4-13.0	0.4-13.0
Coupling (dB) (Incl. freq. sens.)	6.1 ± 2.3***	8 ± 1.0	10 ± 1.0	15 ± 1.0	20 ± 1.0	30 ± 1.0
20 MHz Flatness: (dB)	NA	±0.2	±0.2	±0.2	±0.2	±0.2
(over any 20 MHz B.W.)						
Frequency Sensitivity: (dB)	±1.5	±1.5	±0.8	±0.8	±0.8	±0.8
Directivity : (dB)						
0.4-3.8 GHz	14	16	20	20	20	20
3.8-7.5 GHz	12	13	16	18	18	18
7.5-12.4 GHz	10	5	14	15	15	15
12.4-13 GHz	4	3	8	15	15	15
Insertion Path Loss: (dB)						
0.4-3.8 GHz	2.4	1.2	0.9	0.31	0.25	0.25
3.8-7.5 GHz	2.8	1.5	1.1	0.42	0.3	0.4
7.5-12.4 GHz	3.75	1.7	1.2	0.72	0.6	0.5
12.4-13 GHz	4	1.8	1.2	0.72	0.7	0.6
Return Loss Mainline: (dB)						
0.4-3.8 GHz	13	17	20	20	20	20
3.8-7.5 GHz	12	14	17	18	18	18
7.5-12.4 GHz	8	12	13	15	17	17
12.4-13 GHz	8	10	10	15	17	17
Return Loss Coupled Port: (dB)						
0.4-3.8 GHz	13	17	20	20	20	20
3.8-7.5 GHz	10	14	13	17	15	15
7.5-12.4 GHz	8	10	7	13	10	10
12.4-13 GHz	6	8	6	10	10	10
Connectors:						
Mainline	N(f), SMA(f), or 4.3-10(f)	N(f) or 4.3-10(f)	N(f) or 4.3-10(f)	N(f) or 4.3-10(f)	N(f) or 4.3-10(f)	N(f) or 4.3-10(f)
Secondary (Coupled/Isolated)	N(f), SMA(f), or 4.3-10(f)	N(f) or SMA(f)	N(f) or SMA(f)	N(f) or SMA(f)	N(f) or SMA(f)	N(f) or SMA(f)



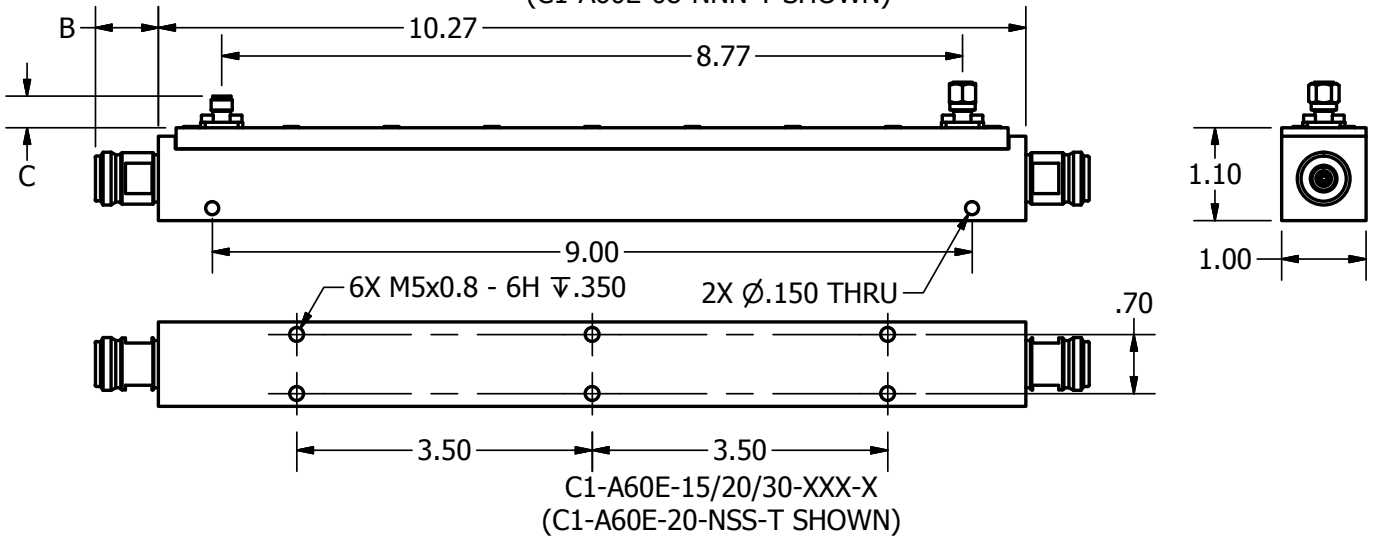
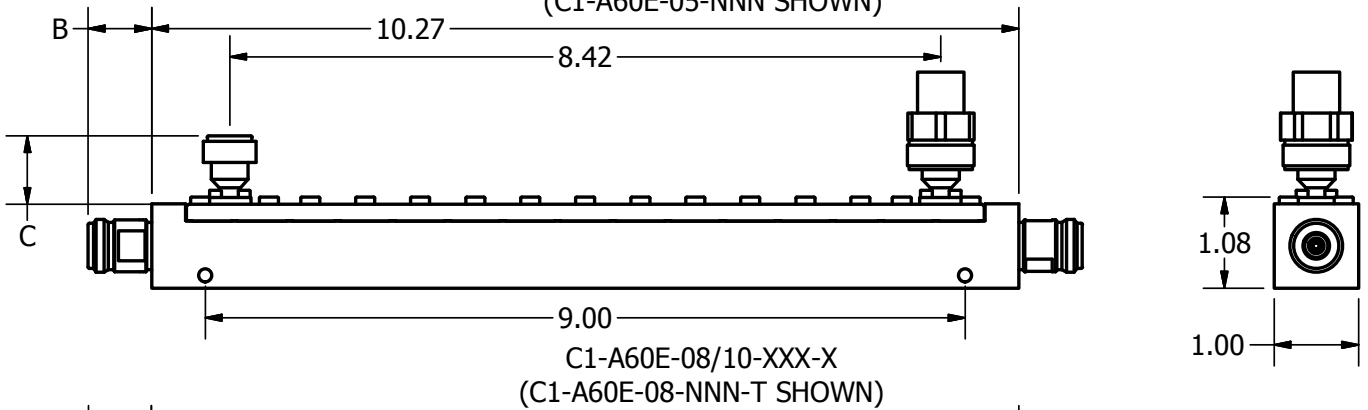
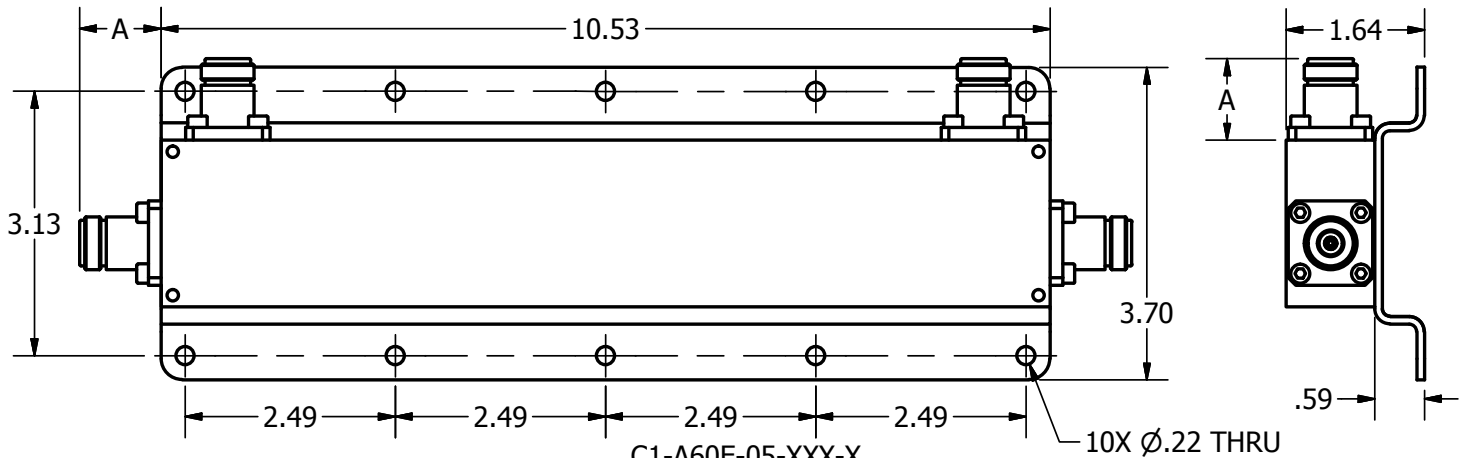
R&D Microwaves LLC, 301 Rockaway Valley Road, Boonton, NJ 07005 USA

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email: sales@rdmicrowaves.com

Single Directional Couplers

C1-A60E-05, 08, 10, 15, 20, 30 dB



DIMENSION	SMA(f)	4.3-10(f)	TYPE N(f)
A	0.49	0.93	0.97
B	N/A	0.77	0.75
C	0.37	N/A	0.81



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