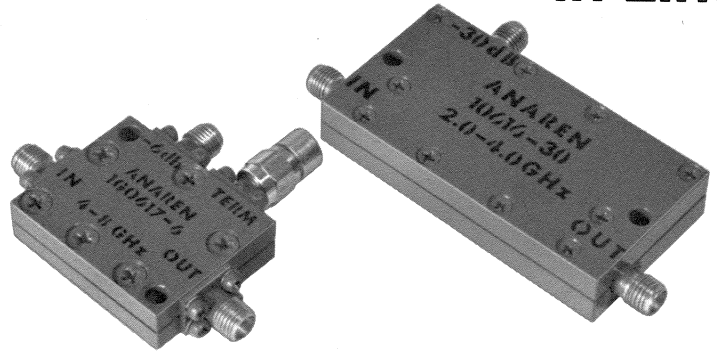




Features

High isolation, low VSWR
Octave and greater bandwidths
44 Models from 0.0625-18 GHz
Rugged stripline construction
Meets MIL-E-5400, Class 3 requirements
Termination included for isolated port

Applications

Subassemblies
Systems
Leveling loops
Power monitors
Laboratory and test setups

Description

These directional couplers use gold-plated stripline circuitry, solid aluminum housings, and stainless steel connectors.

The units are rugged, small size, lightweight and reliable. They have excellent coupling, VSWR and isolation characteristics.

Electrical Specifications

Model No.	Frequency (GHz)	Mean Coupling (dB)	Coupling Frequency Sensitivity Max (dB)	Directivity Min/Typ (dB)	Input VSWR Max	Insertion Loss Max (dB)	Max CW Pwr*	
							For (W)	Rev (W)
10011-6 10011-10 10011-20 10011-30	0.0625-0.1250	6 ± .5	± 0.75	20/25	1.15	.35	20	2
		10 ± .5	± 0.75	20/25	1.15	.35	50	5
		20 ± 1.0	± 0.75	17/22	1.15	.35	100	50
		30 ± 1.0	± 0.75	15/20	1.15	.35	100	100
10012-6 10012-10 10012-20 10012-30	0.125-0.250	6 ± .5	± 0.75	20/25	1.15	.30	20	2
		10 ± .5	± 0.75	20/25	1.15	.30	50	5
		20 ± 1.0	± 0.75	17/22	1.15	.30	100	50
		30 ± 1.0	± 0.75	15/20	1.15	.30	100	100
10010-6 10010-10 10010-20 10010-30	0.225-0.400	6 ± .5	± 0.75	20/25	1.15	.25	20	2
		10 ± .5	± 0.75	20/25	1.15	.25	50	5
		20 ± 1.0	± 0.75	17/22	1.15	.25	100	50
		30 ± 1.0	± 0.75	15/20	1.15	.25	100	100
10013-6 10013-10 10013-20 10013-30	0.25-0.50	6 ± .5	± 0.75	20/25	1.15	.25	20	2
		10 ± .5	± 0.75	20/25	1.15	.25	50	5
		20 ± 1.0	± 0.75	17/22	1.15	.25	100	50
		30 ± 1.0	± 0.75	15/20	1.15	.25	100	100
10014-6 10014-10 10014-20 10014-30	0.5-1.0	6 ± .5	± 0.75	20/25	1.20	.25	20	2
		10 ± .5	± 0.75	20/25	1.20	.25	50	5
		20 ± 1.0	± 0.75	17/22	1.20	.25	100	50
		30 ± 1.0	± 0.75	15/20	1.20	.25	100	100
10870-10	0.5-2.0	10 ± .5	± 0.75	17/22	1.25	.50	50	5
10930-6 10930-10	0.8-1.6	6 ± .5	± 0.75	20/25	1.20	.25	20	2
		10 ± .5	± 0.75	20/25	1.20	.25	50	5

Specifications subject to change without notice.

(continued)

Electrical Specifications (Continued)

Model No.	Frequency (GHz)	Mean Coupling (dB)	Coupling Frequency Sensitivity Max (dB)	Min/Typ Directivity (dB)	Input VSWR Max	Insertion Loss Max (dB)	Max CW Pwr*	
							FOR (W)	REV (W)
10615-6	1.0-2.0	6 ± .5	± 0.75	20/25	1.20	.35	20	2
10615-10		10 ± .5	± 0.75	20/25	1.20	.35	50	5
10615-20		20 ± 1.0	± 0.75	20/25	1.20	.35	100	50
10615-30		30 ± 1.0	± 0.75	15/20	1.20	.35	100	100
10860-6	1.0-4.0	6 ± .5	± 0.75	15/20	1.40	.75	20	2
10616-6	2.0-4.0	6 ± .5	± 0.75	20/25	1.25	.45	20	2
10616-10		10 ± .5	± 0.75	20/25	1.25	.45	50	5
10616-20		20 ± 1.0	± 0.75	20/25	1.25	.45	100	50
10616-30		30 ± 1.0	± 0.75	15/20	1.25	.45	100	100
10610-6	2.6-5.2	6 ± .5	± 0.75	18/23	1.25	.50	20	2
10610-10		10 ± .5	± 0.75	18/23	1.25	.50	50	5
10610-20		20 ± 1.0	± 0.75	18/23	1.25	.50	100	50
1G0617-6	4.0-8.0	6 ± .5	± 0.60	18/23	1.35	.50	20	2
1G0617-10		10 ± .5	± 0.75	18/23	1.35	.50	50	5
1G0617-20		20 ± 1	± 1.00	18/23	1.35	.50	100	50
1G0618-6	8.0-12.4	6 ± .5	± 0.50	15/20	1.45	.60	20	2
1G0618-10		10 ± .5	± 0.60	15/20	1.45	.60	50	5
1G0618-20		20 ± .75	± 0.75	15/20	1.45	.60	100	20
1G0619-6	12.4-18.0	6 ± .5	± 0.50	14/19	1.50	.70	20	2
1G0619-10		10 ± .5	± 0.60	14/19	1.50	.70	50	5
1G0619-20		20 ± .75	± 0.75	14/19	1.50	.70	100	50

*Rating with coupled port terminated in a 2.0:1 VSWR. Higher power can be handled with a lower VSWR termination.
Impedance: 50 ohms nominal

Mechanical Specifications

Model No.	A		B		C		D		E		F		Figure No.	Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm		oz	gm
10010-6	4.90	124	1.40	36	4.40	112	.50	13	.875	22	.37	9	1	4.5	128
10010-10	4.90	124	1.40	36	4.40	112	.50	13	.875	22	.37	9	1	4.5	128
10010-20	4.90	124	1.40	36	4.40	112	.50	13	.875	22	.37	9	1	4.5	128
10010-30	4.90	124	1.40	36	4.40	112	.50	13	.875	22	.37	9	1	4.5	128
10011-6	8.10	206	1.40	36	7.60	193	.50	13	.875	22	.37	9	1	7.2	204
10011-10	8.10	206	1.40	36	7.60	193	.50	13	.875	22	.37	9	1	7.2	204
10011-20	8.10	206	1.40	36	7.60	193	.50	13	.875	22	.37	9	1	7.2	204
10011-30	8.10	206	1.40	36	7.60	193	.50	13	.875	22	.37	9	1	7.2	204
10012-6	4.90	124	1.40	36	4.40	112	.50	13	.875	22	.37	9	1	4.5	128
10012-10	4.90	124	1.40	36	4.40	112	.50	13	.875	22	.37	9	1	4.5	128
10012-20	4.90	124	1.40	36	4.40	112	.50	13	.875	22	.37	9	1	4.5	128
10012-30	4.90	124	1.40	36	4.40	112	.50	13	.875	22	.37	9	1	4.5	128
10013-6	6.00	152	1.20	31	5.50	140	.50	13	.675	17	.37	9	1	4.6	130
10013-10	6.00	152	1.20	31	5.50	140	.50	13	.675	17	.37	9	1	4.6	130
10013-20	6.00	152	1.20	31	5.50	140	.50	13	.675	17	.37	9	1	4.6	130
10013-30	6.00	152	1.20	31	5.50	140	.50	13	.675	17	.37	9	1	4.6	130
10014-6	3.70	94	1.20	31	3.20	81	.50	13	.675	17	.37	9	1	3.0	85
10014-10	3.70	94	1.20	31	3.20	81	.50	13	.675	17	.37	9	1	3.0	85
10014-20	3.70	94	1.20	31	3.20	81	.50	13	.675	17	.37	9	1	3.0	85
10014-30	3.70	94	1.20	31	3.20	81	.50	13	.675	17	.37	9	1	3.0	85

Specifications subject to change without notice.

(continued)

Mechanical Specifications (Continued)

Model No.	A		B		C		D		E		F		Figure No.	Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm		oz	gm
10610-6	2.00	51	1.25	32	1.75	45	.28	7	.620	16	.43	11	2	2.0	57
10610-10	2.00	51	1.25	32	1.75	45	.28	7	.620	16	.43	11	2	2.0	57
10610-20	2.00	51	1.25	32	1.75	45	.28	7	.620	16	.43	11	2	2.0	57
10615-6	2.50	64	1.00	25	2.25	57	.50	13	.620	16	.37	9	2	1.8	51
10615-10	2.50	64	1.00	25	2.25	57	.50	13	.620	16	.37	9	2	1.8	51
10615-20	2.50	64	1.00	25	2.25	57	.50	13	.620	16	.37	9	2	1.8	51
10615-30	2.50	64	1.00	25	2.25	57	.50	13	.620	16	.37	9	2	1.8	51
10616-6	2.44	62	1.25	32	2.16	55	.50	13	.620	16	.43	11	2	2.5	71
10616-10	2.44	62	1.25	32	2.16	55	.50	13	.620	16	.43	11	2	2.5	71
10616-20	2.44	62	1.25	32	2.16	55	.50	13	.620	16	.43	11	2	2.5	71
10616-30	2.44	62	1.25	32	2.16	55	.50	13	.620	16	.43	11	2	2.5	71
1G0617-6	1.30	33	0.90	23	1.08	27	.38	10	.580	15	.37	9	3	1.2	34
1G0617-10	1.30	33	0.90	23	1.08	27	.38	10	.580	15	.37	9	3	1.2	34
1G0617-20	1.30	33	0.90	23	1.08	27	.38	10	.580	15	.37	9	3	1.2	34
1G0618-6	1.30	33	0.90	23	1.08	27	.33	8	.580	15	.37	9	3	1.2	34
1G0618-10	1.30	33	0.90	23	1.08	27	.38	10	.580	15	.37	9	3	1.2	34
1G0618-20	1.30	33	0.90	23	1.08	27	.38	10	.580	15	.37	9	3	1.2	34
1G0619-6	1.30	33	0.90	23	1.08	27	.38	10	.580	15	.37	9	3	1.2	34
1G0619-10	1.30	33	0.90	23	1.08	27	.38	10	.580	15	.37	9	3	1.2	34
1G0619-20	1.30	33	0.90	23	1.08	27	.38	10	.580	15	.37	9	3	1.2	34
10860-6	2.44	62	1.25	32	2.18	55	.50	13	.620	16	.43	11	4	3.2	91
10870-10	4.00	102	1.20	31	1.60	41	.50	13	.950	24	.37	9	4	7.8	221
10930-6	3.70	94	1.20	31	3.20	81	.50	13	.670	17	.37	9	1	5.1	145
10930-10	3.70	94	1.20	31	3.20	81	.50	13	.670	17	.37	9	1	5.1	145

Figure 1

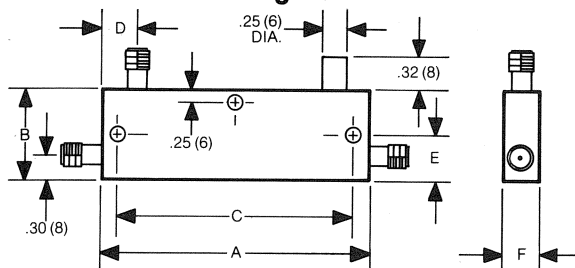


Figure 2

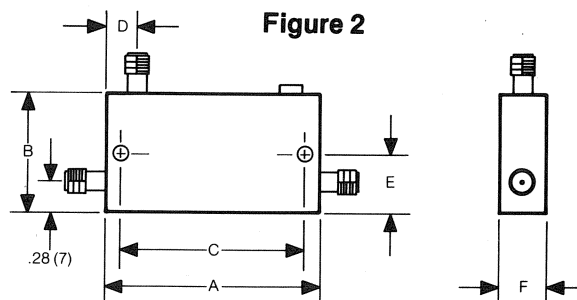


Figure 3

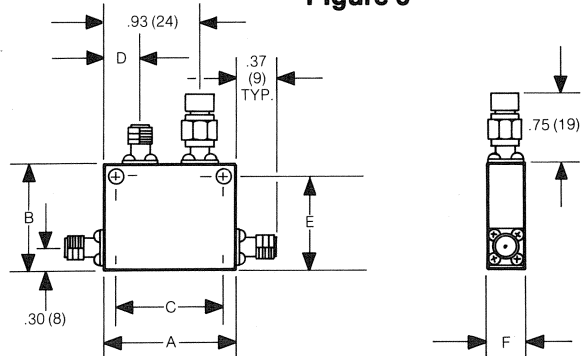
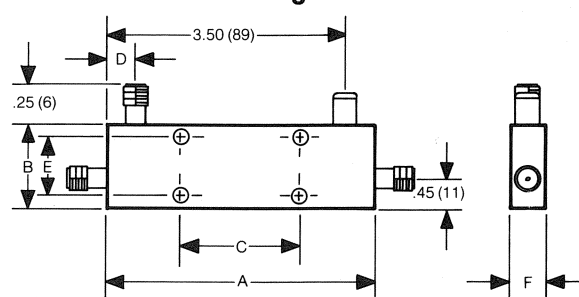


Figure 4



Connectors: SMA, female, per MIL-C-39012
 Mounting hole dia.: .145 ± .005 (3.68 ± .1)
 except Figure 3, .093 (2.4)
 All dimensions in inches and (mm)

Specifications subject to change without notice.

Contact Anaren for latest outline details.