

Directional Couplers

CAES provides miniature stripline couplers, series CA are available in 6dB, 10dB, 20dB, and 30dB coupling values. These units feature high directivity and low VSWR and are conservatively rated to ensure the most reliable service and performance. The directional couplers on this page are unequalled in terms of size and performance. The volume of these couplers makes them ideally suited for applications involving high density packaging.



PART NUMBER	FREQUENCY RANGE		COUPLING - 1/ dB	INSERTION LOSS - 2/ dB, max	FREQUENCY FLATNESS dB	DIRECTIVITY dB, min	VSWR max
	GHz, min	GHz, max					
CA-523	0.5	2.0	30 ± 1.25	0.2	± 0.75	20	1.2:1
CA-526	0.5	2.0	6 ± 1.0	0.2	± 0.75	20	1.2:1
CA-591	1.0	2.0	10 ± 1.2	0.2	± 0.75	20	1.2:1
CA-592	1.0	2.0	20 ± 1.2	0.2	± 0.75	20	1.2:1
CA-596	1.0	2.0	6 ± 1.0	0.2	± 0.75	20	1.2:1
CA-672	2.0	4.0	20 ± 1.2	0.2	± 0.75	20	1.25:1
CA-676	2.0	4.0	6 ± 1.0	0.2	± 0.75	20	1.25:1
CA-691	2.0	8.0	10 ± 1.2	0.3	± 0.75	17	1.3:1
CA-696	2.0	8.0	6 ± 1.0	0.3	± 0.75	17	1.3:1
CA-751	4.0	8.0	10 ± 1.2	0.3	± 0.75	18	1.25:1
CA-752	4.0	8.0	20 ± 1.2	0.3	± 0.75	15	1.25:1
CA-756	4.0	8.0	6 ± 1.0	0.3	± 0.75	18	1.25:1
CA-772	6.0	18.0	20 ± 1.2	0.55	± 0.7	14	1.45:1
CA-776	6.0	18.0	6 ± 1.0	0.55	± 0.75	14	1.45:1
CA-791	7.0	12.4	10 ± 1.0	0.45	± 0.5	17	1.3:1
CA-792	7.0	12.4	20 ± 1.0	0.45	± 0.5	17	1.3:1
CA-796	7.0	12.4	6 ± 1.0	0.45	± 0.5	17	1.3:1
CA-876	8.0	18.0	6 ± 1.0	0.55	± 0.7	14	1.45:1
CA-911	12.4	18.0	10 ± 1.0	0.55	± 0.5	15	1.4:1
CA-912	12.4	18.0	20 ± 1.0	0.55	± 0.5	15	1.4:1
CA-916	12.4	18.0	6 ± 1.0	0.55	± 0.5	15	1.4:1

1/ Coupling referenced to input port

2/ Above coupling loss

Nominal Impedance: 50 Ω

Power (average): 20 W, min - most units 30 - 50 W, min

Power (peak): 2 kW, min (0.25 μs, 1% duty cycle)

Connectors: SMA(f) per MIL-PRF-39012

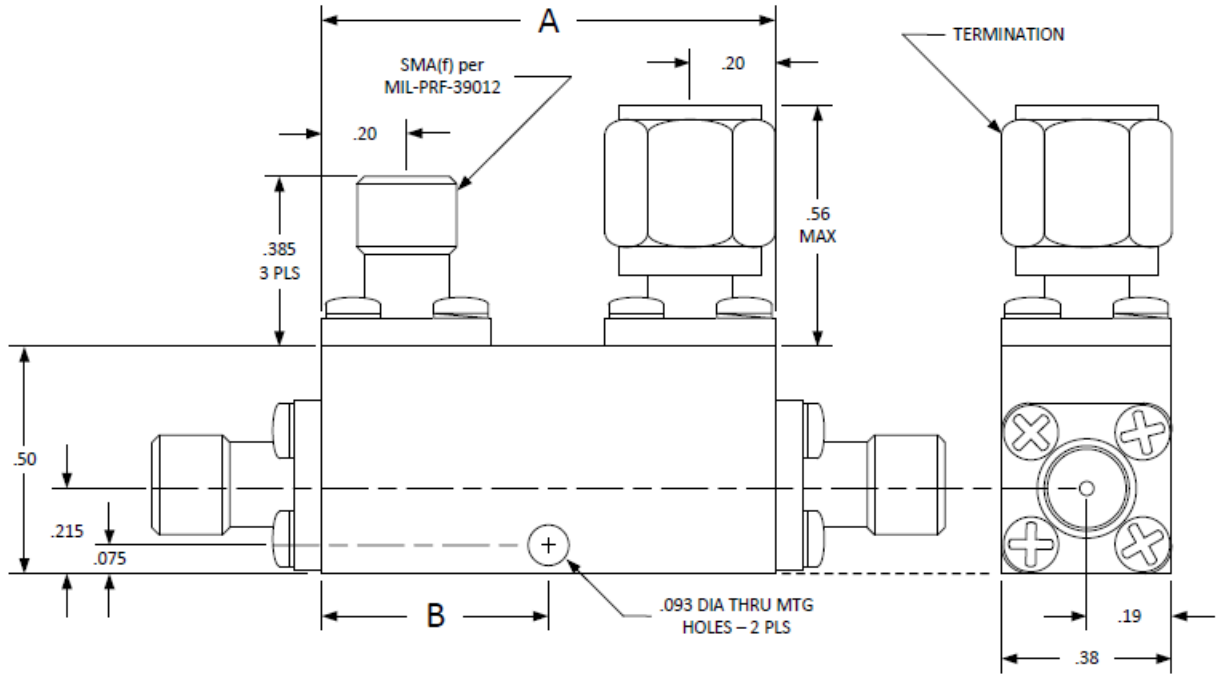
Finish: Lusterless blue epoxy per MIL-PRF-22750 and FED-STD-595 color 35180

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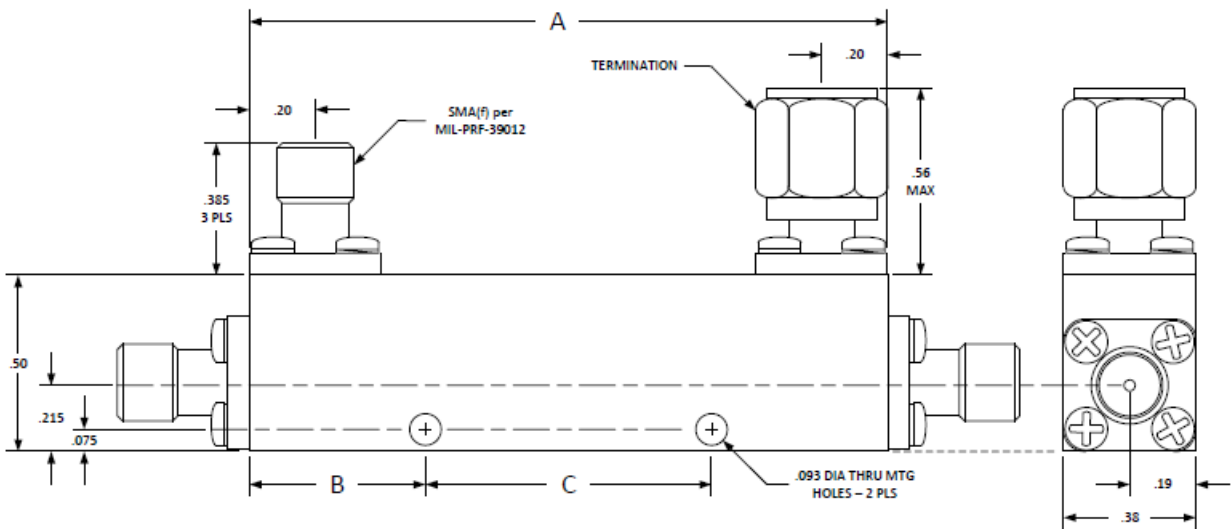
PART NUMBER	DRAWING	A	B	C
CA-523	CSC-2	3.40	0.95	1.500
CA-526	CSC-2	3.40	0.95	1.500
CA-591	CSC-2	1.80	0.43	0.940
CA-592	CSC-2	1.80	0.43	0.940
CA-596	CSC-2	1.80	0.43	0.940
CA-672	CSC-1	1.00	0.50	-
CA-676	CSC-1	1.00	0.50	-
CA-691	CSC-1	1.30	0.65	-
CA-696	CSC-1	1.30	0.65	-
CA-751	CSC-1	0.90	0.45	-
CA-752	CSC-1	0.90	0.45	-
CA-756	CSC-1	0.90	0.45	-
CA-772	CSC-1	0.90	0.45	-
CA-776	CSC-1	0.90	0.45	-
CA-791	CSC-1	0.90	0.45	-
CA-792	CSC-1	0.90	0.45	-
CA-796	CSC-1	0.90	0.45	-
CA-876	CSC-1	0.90	0.45	-
CA-911	CSC-1	0.90	0.45	-
CA-912	CSC-1	0.90	0.45	-
CA-916	CSC-1	0.90	0.45	-

Directional Couplers

CSC-1



CSC-2



Datasheet Definitions

	DEFINITION
Advanced Datasheet	CAES reserves the right to make changes to any products and services described herein at any time without notice. The product is still in the development stage and the datasheet is subject to change . Specifications can be TBD and the part package and pinout are not final .
Preliminary Datasheet	CAES reserves the right to make changes to any products and services described herein at any time without notice. The product is in the characterization stage and prototypes are available.
Datasheet	Product is in production and any changes to the product and services described herein will follow a formal customer notification process for form, fit or function changes.

“Not Subject to Regulations (NSR)”

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