

1 GHz Passive

Features

- Industry-leading insertion loss specifications reduce amplifier requirements
- Unique, patented AC bypass coil provides superior hum modulation performance, which is important in advanced, high current networks
- Superior return loss specifications enable more reliable transmission of digital signals
- Modular design allows board and cover to be changed without costly, reliability-impacting resplicing
- Versatile housing design permits aerial or pedestal mounting
- Power passing/blocking jumpers for increased maintenance flexibility without service interruptions
- Interchangeability of faceplates for all DCs and splitters for simpler less expensive architectural changes
- Durable powered paint coating for superior environmental protection



23087-D

Specifications

Electrical Specifications

Power Inserter

Frequency range

5 MHz to 1000 MHz

Frequency response, cable equivalent, all ports

± 0.35 dB

Return loss, all ports

18 dB min.

20 dB typ.

Hum modulation at 10 amps

70 dB avg. across passband

Power passing

15 A, 60/90 V ac max. input port

10 A, 60/90 V ac max. output port

Splitters and Directional Couplers

Frequency range

5 MHz to 1000 MHz

Frequency response, cable equivalent, all ports

± 0.35 dB

Return loss, all ports

18 dB min.

20 dB typ.

Tap loss, directional couplers

± 1 dB

Hum modulation at 10 amps

70 dB avg. across passband

Power Passing

10 A, 60/90 V ac, 50/60 Hz

Mechanical Specifications

Dimensions

5.5 in. W x 4.5 in. H x 3 in. D

139.75 mm W x 114.3 mm H x 76.2 mm D

Bolt Torque Requirements

Center conductor seizure

15 in-lb. to 20 in-lb. (1.7 Nm to 2.3 Nm)

Housing closure

50 in-lb. to 60 in-lb (5.6 Nm to 6.8 Nm)

Port plugs

50 in-lb to 60 in-lb (5.6 Nm to 6.8 Nm)

Connector pull-out

100 lb. min.

Maximum Insertion Loss (dB)											
Model	Part	Type/	5	10	40	50	450	550	750	870	1000
Number	Number	Tap Loss	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz
SPLITTERS											
SAS2G	506664	2-way	4.0	4.0	4.1	4.1	4.3	4.3	4.9	5.3	5.5
SAS3G	506665	3-way bal.	6.3	6.3	5.9	5.9	6.0	6.4	7.2	7.8	7.9
SAS3UG	506666	3-way unbln.	4.0	4.0	3.9	3.9	4.1	4.8	4.9	5.2	5.4
SAS3UG	506666	3-way unbln.	7.5	7.5	7.4	7.4	7.9	7.9	8.2	8.4	8.7
DIRECTIONAL COUPLERS											
SADC8G	506661	8.5	1.6	1.6	1.7	1.7	1.9	2.0	2.4	3.0	3.5
SADC12G	506662	12	1.1	1.1	1.2	1.2	1.4	1.6	2.0	2.4	2.7
SADC16G	506663	16	1.1	1.1	1.2	1.2	1.3	1.5	1.7	2.1	2.4
POWER INSERTER											
SAIG	506667	---	0.6	0.6	0.6	0.6	0.7	0.8	1.2	1.3	1.4

Minimum Isolation, Tap-to-Output (dB)											
Model	Part	Type/	5	10	40	50	450	550	750	870	1000
Number	Number	Tap Loss	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz	MHz
SPLITTERS											
SAS2G	506664	2-way	22	22	25	25	25	25	25	23	21
SAS3G	506665	3-way bal.	19	19	19	19	19	19	19	19	19
SAS3UG	506666	3-way unbln.	25	25	28	28	28	28	23	23	21
SAS3UG	506666	3-way unbln.	23	23	25	25	25	25	23	21	20
DIRECTIONAL COUPLERS											
SADC8G	506661	8.5	18	18	25	25	24	24	21	19	18
SADC12G	506662	12	20	20	26	26	26	26	24	22	20
SADC16G	506663	16	22	22	28	28	28	28	25	23	22
POWER INSERTER											
SAIG	506667	---	65	65	61	61	61	61	58	55	53



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Scientific-Atlanta, Inc.
1-800-722-2009 or 770-903-6900
www.sciatl.com

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