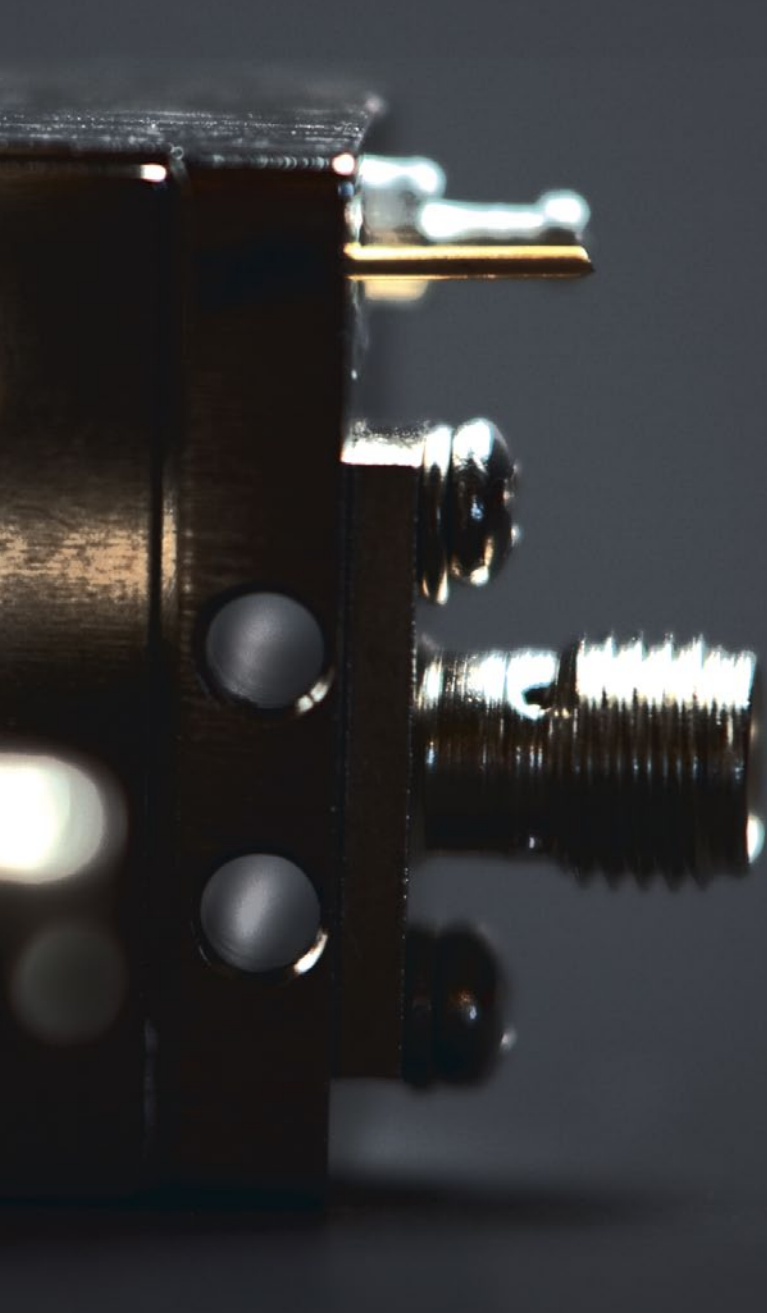


SHORT FORM & CAPABILITIES CATALOG



AMPLIFIER SOLUTIONS CORPORATION



ABOUT THIS BROCHURE

This short form and capabilities catalog is intended to give the reader an idea of Amplifier Solutions Corporation's (ASC) capabilities. The products listed in this catalog have been designed and produced by ASC. A majority of ASC's business is custom, so please do not hesitate to contact ASC with special electrical and mechanical requirements.

COMPANY & FACILITY INFO

Amplifier Solutions Corporation is a designer and manufacturer of RF & Microwave hybrid amplifiers for the military and commercial markets. ASC's thick film hybrids utilize GaAs FET, silicon bipolar transistor and MMIC technologies to achieve low to medium power output in the 300 kHz to 4 GHz frequency band.

ASC's amplifiers are ideal for signal amplification applications that require super linearity, low to medium output power, low noise, high reverse isolation, low distortion, and/or wide bandwidth.

ASC's most recent design efforts leverage advances being made with GaN semiconductor technology.

BUSINESS PHILOSOPHY

Our mission is to offer our customers custom RF & Microwave amplifier solutions that provide performance and cost advantages. We encourage customers to contact ASC's engineering team directly as we believe it is critical to understanding the application and in turn recommending the best amplification solution.

ASC offers excellent customer support and takes pride in the ability to quickly react to evolving system design requirements.

FACILITIES

ASC is located in a 2600 square foot facility in the town of Colmar which is in Southeastern Pennsylvania. ASC has the ability to operate multiple shifts and leverages existing relationships with contract manufacturing partners.



Amplifier Solutions Corporation is a minority owned company. ASC achieved Small Disadvantage Business certification in 2008.



Quality & Environmental Certification Ltd. awarded Amplifier Solutions Corporation ISO-9001:2008 in December of 2008.



Amplifier Solutions Corporation is RoHS compliant upon request.

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FLAT PACK
Length 0.625 in
Width 0.625 in
Height 0.175 in



SMA-F
Length 1 in
Width 1 in
Height 0.375 in



LOW NOISE AMPLIFIERS

ASC Model #	Low Freq. MHz	High Freq. MHz	NF Typ. dB	Gain Typ. dB	Flat Typ. p-p	P1dB Typ. dBm	Norm. Volt. V	Norm. Curr. mA	Case Style
ASC100	1200	1400	0.8	30	0.4	19.0	+15	100	Flat pack
ASC102	300	1000	1.2	31	0.4	27.0	+15	180	Flange
ASC105	2300	2500	1.0	23	0.4	18.0	+12	82	Flat pack
ASC106	800	960	0.8	31	0.4	27.5	+15	200	Flat pack
ASC108	1800	2000	0.9	28.5	0.5	26.0	+15	250	Flange
ASC115	800	1000	1.5	32	0.4	20.0	+12	115	Flat pack
ASC116C	20	500	1.6	41	0.3	27.0	+15	320	SMA-F
ASC117C	30	500	1.2	37	0.3	29.0	+15	450	SMA-F
ASC118C	20	500	1.6	60	0.4	27.0	+15	440	SMA-F
ASC119	10	500	2.0	32	0.5	10.0	+15	40	Flat pack

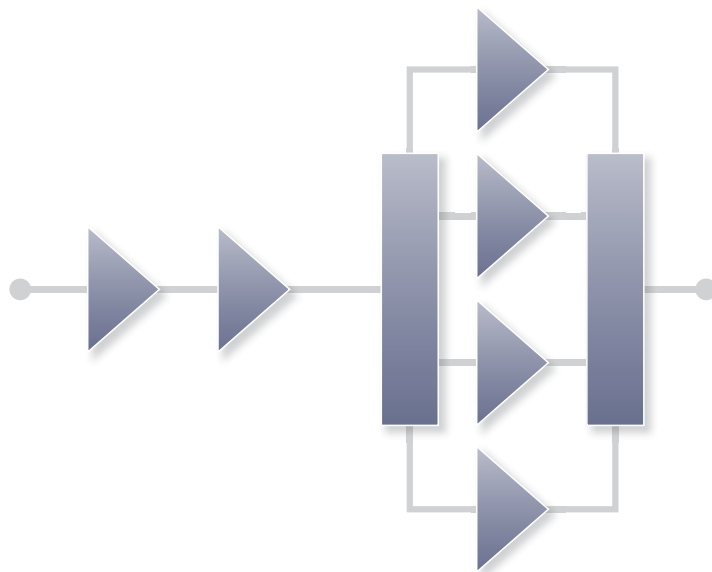
Note: All amplifiers shown are available in different case style (flatpack/flange).



SMA-F
Length 2 in
Width 1 in
Height 0.5 in



FLANGE
Length 2.37 in
Width 1.04 in
Height 0.495 in



HIGH POWER AMPLIFIERS

ASC Model #	Low Freq. MHz	High Freq. MHz	P1dB Typ. dBm	IP3 Typ. dBm	Gain Typ. dB	Flat Typ. p-p	Norm. Volt. V	Norm. Curr. mA	Case Style
ASC300	1800	2000	33.0	50.0	10	0.4	+10	850	Flange
ASC302	800	960	36.3	50.0	30	0.5	+10	1400	Flange
ASC304	2300	2400	36.0	50.0	23	0.4	+10	1400	Flange
ASC310	800	960	40.0	50.0	30	0.5	+12	2000	Flange
ASC314	2300	2400	40.0	48.0	26	0.5	+12	2000	Flange
ASC317	450	512	40.0	50.0	30	0.5	+12	2000	Flange
ASC320	1800	2000	38.0	50.0	24	0.5	+12	1700	Flange
ASC325	100	1000	31.6	45.0	26	0.5	+24	440	Flange
ASC354	50	1000	31.0	45.0	31	0.5	+15	430	Flange
ASC355	20	1000	31.0	45.0	26	0.5	+15	450	Flange
ASC356	500	2000	30.0	43.0	35	0.8	+15	990	Flange

Note: All amplifiers shown are available in different case style (connectorized housing).

LOW DISTORTION AMPLIFIERS

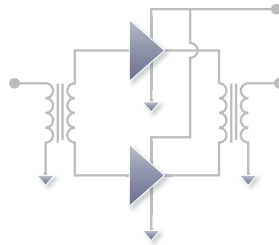
ASC Model #	Low Freq. MHz	High Freq. MHz	IP2 Typ. dBm	IP3 Typ. dBm	P1dB Typ. dBm	Norm. Volt. V	Norm. Curr. mA	Case Style
ASC400	20	500	80	42	27	+15	250	Flat pack
ASC402C	20	1200	70	43	30	+15	300	SMA-F
ASC405C	60	250	95	47	30	+24	450	SMA-F
ASC422C	500	2000	65	43	28	+15	350	SMA-F
ASC423C	10	1000	70	45	30	+15	430	SMA-F
ASC424C	1	50	90	46	29	+24	225	SMA-F
ASC425C	20	1000	70	45	27	+15	350	SMA-F
ASC426C	20	500	75	43	28	+15	300	SMA-F
ASC427C	20	500	75	47	30	+28	500	SMA-F
ASC428C	1000	2000	75	43	29	+15	950	SMA-F
ASC429	20	150	80	45	28	+15	230	Flat pack
ASC430	20	700	70	42	27	+15	200	Flat pack
ASC431	10	500	70	37	25	+15	160	TO-8

Note: All amplifiers shown are available in different case style (flatpack/flange/connectorized housing).



FLAT PACK

Length 0.625 in
Width 0.625 in
Height 0.175 in



TO-8

Diameter 0.6 in
Height 0.465 in



GENERAL PURPOSE AMPLIFIERS

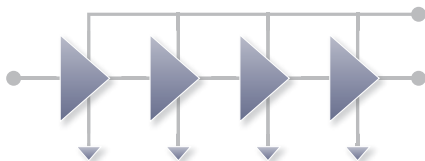
ASC Model #	Low Freq. MHz	High Freq. MHz	Gain Typ. dB	Flat. Typ. p-p	P1dB Typ. dBm	IP3 Typ. dBm	NF Typ. dB	Norm Volt. V	Norm. Curr. mA	Case Style
ASC600	30	200	13	0.3	24	38	3.2	+15	96	TO-8
ASC608	5	500	13.0	0.3	23	35	4.0	+15	90	TO-8
ASC649	5	500	30	0.4	10	30	2.2	+15	40	TO-8
ASC652	5	200	30	0.4	18	33	3.0	+15	80	Flat pack
ASC653	5	500	11	0.3	22	33	4.0	+15	95	TO-8
ASC654	500	2000	25	0.6	25	37	3.0	+15	240	SMA-F
ASC659	50	2500	16	0.8	22	35	3.0	+15	180	SMA-F

Note: All amplifiers shown are available in different case style (flatpack/flange).

CATV AMPLIFIERS

ASC Model #	Low Freq. MHz	High Freq. MHz	Gain Typ. dB	Flat. Typ. p-p	P1dB Typ. dBm	IP2 Typ. dBm	IP3 Typ. dBm	Norm. Volt. V	Norm. Curr. mA	Case Style
ASC500	10	400	35	0.5	28	85	45	24	320	CATV Block
ASC501	0.1	100	38	0.4	27	75	42	13.6	300	CATV Block
ASC502	40	550	38	0.5	28	65	40	24	320	CATV Block
ASC513	1	100	35	0.4	30	88	46	24	320	CATV Block
ASC514	2	32	28	0.4	30	90	46	24	320	CATV Block
ASC591	1	250	36	0.4	28	80	44	13.6	300	CATV Block
ASC592	1	250	35	0.4	29	80	45	24	320	CATV Block
ASC2830	5	200	34.5	0.3	30	80	46	24	320	CATV Block
ASC2832	1	200	35	0.4	32	75	46	24	430	CATV Block
ASC2834	1	350	36	0.4	29	75	44	24	320	CATV Block

Note: All amplifiers shown are available in different case style (connectorized housing).



SMA-F
Length 1 in
Width 1 in
Height 0.375 in

HIGH GAIN AMPLIFIERS

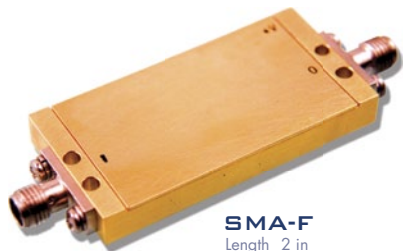
ASC Model #	Low Freq. MHz	High Freq. MHz	Gain Typ. dB	Flat Typ. p-p	P1dB Typ. dBm	NF Typ. dB	Norm. Volt. V	Norm. Curr. mA	Case Style
ASC700C	20	500	60	0.5	27	1.6	+15	450	SMA-F
ASC701C	20	500	41	0.4	27	1.5	+15	320	SMA-F
ASC702C	500	2700	33	0.4	25	2.2	+15	350	SMA-F
ASC703C	500	2000	35	0.4	29	2.5	+15	900	SMA-F
ASC704C	1000	3000	52	1.5	26	3.0	+15	550	SMA-F
ASC705C	10	1000	42	0.6	26	3.0	+15	550	SMA-F

Note: All amplifiers shown are available in different case style (connectorized housing).



WIDEBAND AMPLIFIERS (THIN-FILM)

ASC Model #	Low Freq. GHz	High Freq. GHz	NF Typ. dB	Gain Typ. dB	Flat Typ. p-p	P1dB Typ. dBm	Norm. Volt. V	Norm. Curr. mA	Case Style
ASC1064C	2	18	9.0	24	3.0	23.0	+15	1100	SMA-F
ASC1065C	2	18	6.0	40	3.0	18.0	+15	900	SMA-F



SMA-F
Length 2 in
Width 1 in
Height 0.25 in



SMA-F
Length 3.58 in
Width 4.5 in
Height 1 in

WIDEBAND AMPLIFIERS

ASC Model #	Low Freq. MHz	High Freq. MHz	NF Typ. dB	Gain Typ. dB	Flat Typ. p-p	P1dB Typ. dBm	Norm. Volt. V	Norm. Curr. mA	Case Style
ASC201C	20	2000	3.5	24	0.5	22.0	+15	220	SMA-F
ASC206C	800	4200	4.0	10	1.0	20.0	+12	80	SMA-F
ASC219C	10	2000	4.0	11	0.5	27.0	+15	180	SMA-F
ASC220C	10	2000	4.0	15	0.6	23.0	+15	150	SMA-F
ASC223C	100	2000	4.5	24	0.5	25.0	+15	220	SMA-F
ASC227C	100	2200	4.0	12	0.6	25.0	+15	200	SMA-F
ASC228C	200	2500	5.0	16	0.4	24.0	+15	220	SMA-F
ASC229C	400	2700	4.0	22	0.6	24.0	+15	200	SMA-F
ASC230C	400	2700	3.0	33	0.6	25.0	+15	300	SMA-F
ASC231C	20	3000	8.0	16	0.6	25.0	+15	350	SMA-F

AMPLIFIER SOLUTIONS CORPORATION (ASC)



2950-K Advance Lane
Colmar, PA 18915
Phone: 215.997.7856
Fax: 215.997.7857
Email: sales@amplifiersolutions.com
Web: www.amplifiersolutions.com



REPRESENTATIVES

Biggs and Associates

2124 Savannah Trail
Denton, TX 76305
Contact: Rick Biggs
Phone: 972.679.5871
Email: rbiggs_1@charter.net

SERTECH, Inc.

1380 Welsh Road
Montgomeryville, PA 18936
Contact: Jim Patterson
Phone: 215.628.8085
Fax: 215.628.0242
Email: info@sertech.info
Web: www.sertech.info

DISTRIBUTORS

Diplex, Inc.

111 B Park Drive
Montgomeryville, PA 18936
Phone: 267.514.4003
Fax: 267.514.4004
Email: sales@diplex.info
Web: www.DiplexInc.com

RFMW

90 Great Oaks Blvd., Suite 107
San Jose, CA 95115
Phone: 877.367.7369
Fax: 408.414.1461
Email: sales@rfmw.com
Web: www.rfmw.com

INTERNATIONAL AGENTS

Israel

Dynamic Technology Marketing, LTD.

PO Box 10367
Petach Tikva 49003
Contact: Eran Moscowitz
Phone: +972 9 7680383
Mobile: +972 54 7668544
Fax: +972 9 7680257
Email: eran@dtcm.co.il
Web: www.dtcm.co.il

France

TECH-INTER

Z.A. Le Clos de Villardeaux
78770 THOIRY - France
Contact: Michael PUNGARTNIK
Phone: +33 1 34 94 20 40
Fax: +33 1 34 87 76 49
Email: sales@tech-inter.fr
Web: www.tech-inter.fr

Japan

CHRONIX Inc.

Shinjuku Monolith 13F,
2-3-1 Nishishinjuku Shinjuku-ku T
Tokyo 163-0913 JAPAN
Phone: +81 3 5352 7191
Fax: +81 3 5352 7790
Email: sales@chronix.co.jp
Web: www.chroix.co.jp