

ULTRA-WIDEBAND AFS AMPLIFIERS

MODEL NUMBER	FREQUENCY RANGE (GHz)	GAIN (dB, Min.)	GAIN FLATNESS (±dB, Max.)	NOISE FIGURE (dB, Max.)	VSWR IN/OUT (Max.)	OUTPUT POWER @ 1 dB COMP. (dBm, Min.)	NOM. DC POWER (15 V, mA)	OUTLINE DRAWING
ULTRA-WIDEBAND								
AFS1-00100100-11-10P-4	0.1-1	14	1	1.1	2.5:1	10	50	4
AFS2-00100100-10-10P-2	0.1-1	25	1	1	2:1	10	100	2
AFS3-00100100-09-10P-4	0.1-1	38	1	0.9	2:1	10	125	4
AFS4-00100100-09-10P-4	0.1-1	45	1	0.9	2:1	10	175	4
AFS1-00040200-12-10P-4	0.04-2	15	1.5	1.2	2:1	10	50	4
AFS1-00100200-11-12P-4	0.1-2	14	1.5	1.1	2:1	12	75	4
AFS2-00100200-10-12P-2	0.1-2	25	1	1	2:1	12	100	2
AFS3-00100200-10-15P-4	0.1-2	38	1	1	2:1	15	150	4
AFS4-00100200-10-15P-4	0.1-2	46	1.5	1	2:1	15	175	4
AFS1-00100300-14-8P-4	0.1-3	10	1.5	1.4	2:1	8	75	4
AFS2-00100300-12-10P-2	0.1-3	20	1.25	1.2	2:1	10	100	2
AFS3-00100300-12-10P-4	0.1-3	32	1	1.2	2:1	10	125	4
AFS4-00100300-12-10P-4	0.1-3	40	1.5	1.2	2:1	10	150	4
AFS2-00100400-15-10P-4	0.1-4	16	1.25	1.5	2:1	10	80	4
AFS3-00100400-13-10P-4	0.1-4	28	1	1.3	2:1	10	125	4
AFS4-00100400-13-S-4	0.1-4	36	1	1.3	2:1	10	150	4
AFS2-00100600-15-10P-2	0.1-6	16	1.25	1.5	2:1	10	100	2
AFS3-00100600-13-10P-4	0.1-6	28	1.25	1.3	2:1	10	125	4
AFS4-00100600-13-S-4	0.1-6	36	1.5	1.3	2:1	10	150	4
AFS5-00100600-13-S-5	0.1-6	42	1.5	1.3	2:1	10	175	5
AFS2-00100800-15-S-2	0.1-8	16	1.5	1.5	2:1	10	80	2
AFS3-00100800-14-10P-4	0.1-8	28	1.5	1.4	2:1	10	125	4
AFS4-00100800-14-10P-4	0.1-8	36	1.5	1.4	2:1	10	150	4
AFS5-00100800-14-10P-5	0.1-8	42	1.5	1.4	2:1	10	175	5
AFS4-00101000-20-10P-4	0.1-10	28	1.5	2	2:1	10	150	4
AFS5-00101000-20-10P-5	0.1-10	34	1.5	2	2:1	10	175	5
AFS42-00101000-20-10P-42	0.1-10	42	1.75	2	2:1	10	220	42
AFS2-00101200-25-8P-2	0.1-12	14	1.5	2.5	2:1	8	80	2
AFS3-00101200-22-10P-4	0.1-12	25	1.5	2.2	2:1	10	100	4
AFS4-00101200-22-10P-4	0.1-12	30	1.5	2.2	2:1	10	150	4
AFS5-00101200-22-S-5	0.1-12	32	1.75	2.2	2:1	10	175	5
AFS42-00101200-22-10P-42	0.1-12	38	2	2.2	2:1	10	220	42
AFS2-00101400-30-5P-2	0.1-14	14	1.5	3	2.5:1	5	100	2
AFS3-00101400-23-8P-4	0.1-14	19	1.75	2.3	2.5:1	8	150	4
AFS4-00101400-23-10P-4	0.1-14	24	2	2.3	2.5:1	10	200	4
AFS5-00101400-23-10P-6	0.1-14	28	2.25	2.3	2.5:1	10	225	6
AFS6-00101400-23-10P-6	0.1-14	32	2.5	2.3	2.5:1	10	250	6
AFS2-00101600-30-8P-2	0.1-16	12	1.5	3	2.5:1	8	125	2
AFS3-00101600-23-8P-4	0.1-16	18	1.75	2.3	2.5:1	8	150	4
AFS4-00101600-23-10P-4	0.1-16	24	2	2.3	2.5:1	10	175	4
AFS5-00101600-23-10P-6	0.1-16	30	2.25	2.3	2.5:1	10	200	6
AFS6-00101600-23-10P-6	0.1-16	36	2.5	2.3	2.5:1	10	250	6
AFS2-00101800-30-8P-2	0.1-18	12	2	3	2.5:1	8	125	2
AFS3-00101800-25-S-4	0.1-18	22	2	2.5	2.5:1	8	150	4
AFS4-00101800-25-S-4	0.1-18	25	2	2.5	2.5:1	10	175	4
AFS42-00101800-25-S-42	0.1-18	35	2.5	2.5	2.5:1	10	225	42
AFS2-00102000-40-5P-2	0.1-20	10	2	4	2.5:1	5	75	2
AFS3-00102000-35-8P-4	0.1-20	15	2.25	3.5	2.5:1	8	100	4
AFS4-00102000-30-10P-4	0.1-20	20	2.5	3	2.5:1	10	125	4
AFS5-00102000-30-10P-6	0.1-20	24	2.5	3	2.5:1	10	150	6
AFS6-00102000-30-10P-6	0.1-20	28	2.5	3	2.5:1	10	175	6
AFS44-00102000-30-10P-44	0.1-20	36	3	3	2.5:1	10	300	44

NOTE: Noise figure increases below 500 MHz in bands greater than 0.1-10 GHz.

ULTRA-WIDE/MULTIOCTAVE BAND LOW-NOISE AFS AMPLIFIERS

MODEL NUMBER	FREQUENCY RANGE (GHz)	GAIN (dB, Min.)	GAIN FLATNESS (±dB, Max.)	NOISE FIGURE (dB, Max.)	VSWR IN/OUT (Max.)	OUTPUT POWER @ 1 dB COMP. (dBm, Min.)	NOM. DC POWER (15 V, mA)	OUTLINE DRAWING
ULTRA-WIDEBAND (CONT.)								
AFS3-00102200-40-8P-4	0.1–22	18	2.5	4	2.5:1	8	150	4
AFS4-00102200-40-10P-4	0.1–22	22	2.5	4	2.5:1	10	135	4
AFS42-00102200-40-10P-42	0.1–22	30	2.75	4	2.5:1	10	200	42
AFS44-00102200-40-10P-44	0.1–22	34	3	4	2.5:1	10	270	44
AFS2-00102650-55-8P-4	0.1–26.5	8	2.5	5.5	2.5:1	8	70	4
AFS3-00102650-42-8P-4	0.1–26.5	18	2.5	4.2	2.5:1	8	120	4
AFS4-00102650-42-8P-4	0.1–26.5	22	2.5	4.2	2.5:1	8	135	4
AFS42-00102650-42-10P-42	0.1–26.5	30	2.75	4.2	2.5:1	10	200	42
AFS44-00102650-42-10P-44	0.1–26.5	35	3	4.2	2.5:1	10	275	44
NOTE: Noise figures increase below 500 MHz in bands greater than 0.1–10 GHz.								
MULTIOCTAVE BAND								
AFS1-00300140-10-10P-4	0.3–1.4	14	1	1	2:1	10	50	4
AFS2-00300140-09-10P-4	0.3–1.4	25	1	0.9	2:1	10	100	4
AFS3-00300140-09-10P-4	0.3–1.4	38	1	0.9	2:1	10	125	4
AFS4-00300140-09-10P-4	0.3–1.4	44	1	0.9	2:1	10	175	4
AFS2-00400350-12-10P-4	0.4–3.5	22	1.5	1.2	2:1	10	80	4
AFS3-00400350-12-10P-4	0.4–3.5	32	1	1.2	2:1	10	110	4
AFS4-00400350-12-10P-4	0.4–3.5	42	1	1.2	2:1	10	150	4
AFS5-00400350-12-10P-6	0.4–3.5	52	1.5	1.2	2:1	10	175	6
AFS1-00500200-10-10P-4	0.5–2	14	1.5	1	2:1	10	50	4
AFS2-00500200-08-15P-2	0.5–2	25	1	0.8	2:1	15	100	2
AFS3-00500200-08-15P-4	0.5–2	38	1	0.8	2:1	15	125	4
AFS4-00500200-08-15P-4	0.5–2	46	1	0.8	2:1	15	175	4
AFS1-01000400-13-10P-4	1–4	10	1.5	1.3	2:1	10	75	4
AFS2-01000400-10-10P-4	1–4	20	1	1	2:1	10	100	4
AFS3-01000400-10-10P-4	1–4	30	1.5	1	2:1	10	125	4
AFS4-01000400-10-10P-4	1–4	40	1.5	1	2:1	10	175	4
AFS1-02000600-20-5P-2	2–6	9	1	2	2:1	5	50	2
AFS2-02000600-09-8P-2	2–6	18	1	0.9	2:1	8	70	2
AFS3-02000600-09-10P-4	2–6	28	1	0.9	2:1	10	125	4
AFS4-02000600-09-10P-4	2–6	36	1	0.9	2:1	10	150	4
AFS1-02000800-20-S-2	2–8	8	1	2	2.5:1	5	50	2
AFS2-02000800-09-10P-2	2–8	18	1	0.9	2:1	10	70	2
AFS3-02000800-09-10P-4	2–8	26	1	1	2:1	10	125	4
AFS4-02000800-09-10P-4	2–8	34	1.5	0.9	2:1	10	150	4
AFS2-02001800-29-S-2	2–18	12	2.5	2.9	2.5:1	8	75	2
AFS3-02001800-24-10P-3	2–18	25	2	2.4	2.3:1	10	125	3
AFS4-02001800-23-10P-4	2–18	25	2	2.3	2:1	10	175	4
AFS5-02001800-24-10P-5	2–18	35	2.5	2.4	2.3:1	10	175	5
AFS2-06001800-25-5P-2	6–18	12	1.5	2.5	2:1	5	50	2
AFS3-06001800-24-10P-4	6–18	20	1.5	2.4	2:1	10	100	4
AFS4-06001800-22-10P-4	6–18	25	2	2.2	2:1	10	125	4
AFS5-06001800-22-10P-6	6–18	30	2	2.2	2:1	10	150	6
AFS6-06001800-22-10P-6	6–18	34	2	2.2	2:1	10	175	6
AFS2-08001800-25-5P-2	8–18	14	1.5	2.5	2:1	5	50	2
AFS3-08001800-24-8P-4	8–18	20	1.5	2.4	2:1	8	100	4
AFS4-08001800-22-10P-4	8–18	28	2	2.2	2:1	10	125	4
AFS5-08001800-22-13P-6	8–18	32	2	2.2	2:1	13	175	6
AFS6-08001800-22-15P-6	8–18	36	2	2.2	2:1	15	200	6
AFS3-12002600-32-5P-4	12–26	16	2.5	3.2	2.5:1	5	125	4
AFS32-12002600-32-5P-42	12–26	24	2.75	3.2	2.5:1	5	175	42
AFS33-12002600-32-5P-44	12–26	32	3	3.2	2.5:1	5	250	44

OCTAVE BAND AFS AMPLIFIERS

MODEL NUMBER	FREQUENCY RANGE (GHz)	GAIN (dB, Min.)	GAIN FLATNESS (±dB, Max.)	NOISE FIGURE (dB, Max.)	VSWR IN/OUT (Max.)	OUTPUT POWER @ 1 dB COMP. (dBm, Min.)	NOM. DC POWER (15 V, mA)	OUTLINE DRAWING
OCTAVE BAND								
AFS1-00120025-10-13P-4	0.12–0.25	15	0.75	1	2.5:1/2 :1	13	75	4
AFS2-00120025-09-10P-2	0.12–0.25	25	0.5	0.9	2:1	10	100	2
AFS3-00120025-09-10P-4	0.12–0.25	38	0.5	0.9	2:1	10	125	4
AFS4-00120025-09-10P-4	0.12–0.25	46	0.5	0.9	2:1	10	150	4
AFS1-00250050-09-10P-4	0.25–0.5	16	0.5	0.9	2:1	10	50	4
AFS2-00250050-08-10P-2	0.25–0.5	25	0.5	0.8	2:1	10	75	2
AFS3-00250050-08-10P-4	0.25–0.5	38	0.5	0.8	2:1	10	125	4
AFS4-00250050-08-10P-4	0.25–0.5	46	0.5	0.8	2:1	10	150	4
AFS1-00500100-08-10P-4	0.5–1	16	1	0.8	2:1	10	50	4
AFS2-00500100-06-10P-6	0.5–1	24	0.75	0.6	2:1/1.5:1	10	100	6
AFS3-00500100-06-10P-6	0.5–1	38	0.75	0.6	2:1/1.5:1	10	150	6
AFS4-00500100-06-10P-6	0.5–1	48	0.75	0.6	2:1/1.5:1	10	175	6
AFS1-01000200-11-15P-4	1–2	14	1	1.1	2:1	15	75	4
AFS2-01000200-05-10P-6	1–2	25	1	0.5	2:1	10	100	6
AFS3-01000200-05-10P-6	1–2	38	1	0.5	2:1	10	150	6
AFS4-01000200-05-10P-6	1–2	46	1	0.5	2:1	10	175	6
AFS1-01200240-09-10P-4	1.2–2.4	14	1	0.9	2:1	10	75	4
AFS2-01200240-09-8P-2	1.2–2.4	23	1	0.9	2:1	8	100	2
AFS3-01200240-06-10P-6	1.2–2.4	34	1	0.6	2:1	10	150	6
AFS4-01200240-06-10P-6	1.2–2.4	44	1	0.6	2:1	10	175	6
AFS1-02000400-12-10P-4	2–4	10	1	1.2	2:1	10	50	4
AFS2-02000400-07-8P-4	2–4	24	1	0.7	2:1	8	75	4
AFS3-02000400-06-10P-4	2–4	32	1	0.6	2:1	10	125	4
AFS4-02000400-06-10P-6	2–4	40	1.5	0.6	2:1	10	150	6
AFS1-02600520-18-5P-2	2.6–5.2	9	1	1.8	2:1	5	50	2
AFS2-02600520-14-8P-2	2.6–5.2	18	1	1.4	2:1	8	100	2
AFS3-02600520-10-10P-4	2.6–5.2	28	1	1	2:1	10	125	4
AFS4-02600520-10-10P-4	2.6–5.2	36	1	1	2:1	10	175	4
AFS1-04000800-13-5P-2	4–8	8	1	1.3	2:1	5	50	2
AFS2-04000800-08-8P-2	4–8	20	1	0.8	2:1	8	80	2
AFS3-04000800-07-10P-4	4–8	28	1	0.7	2:1	10	125	4
AFS4-04000800-08-10P-4	4–8	37	1	0.8	2:1	10	125	4
AFS2-05001000-18-5P-2	5–10	14	1	1.8	2:1	5	100	2
AFS3-05001000-14-8P-4	5–10	24	1	1.4	2:1	8	125	4
AFS4-05001000-14-10P-4	5–10	28	1.25	1.4	2:1	10	150	4
AFS5-05001000-14-10P-5	5–10	35	1.5	1.4	2:1	10	175	5
AFS2-06001200-18-5P-2	6–12	14	1.5	1.8	2:1	5	100	2
AFS3-06001200-15-8P-4	6–12	24	1.5	1.5	2:1	8	125	4
AFS4-06001200-15-10P-4	6–12	30	1.5	1.5	2:1	10	150	4
AFS5-06001200-15-10P-5	6–12	34	1.5	1.5	2:1	10	175	5
AFS42-06001200-15-10P-42	6–12	40	1.75	1.5	2:1	10	250	42
AFS1-08001200-15-5P-2	8–12	10	1	1.5	2:1	5	50	2
AFS2-08001200-14-5P-2	8–12	16	1	1.4	2:1	5	75	2
AFS3-08001200-09-10P-4	8–12	26	1	0.9	2:1	10	125	4
AFS4-08001200-10-10P-4	8–12	32	1	1	2:1	10	125	4
AFS42-08001200-10-10P-42	8–12	40	1.5	1	2:1	10	185	42
AFS2-08001600-15-5P-2	8–16	16	1.5	1.5	2:1	5	50	2
AFS3-08001600-15-8P-4	8–16	28	1	1.5	2:1	8	100	4
AFS4-08001600-15-10P-4	8–16	34	1	1.5	2:1	10	125	4
AFS5-08001600-15-10P-6	8–16	38	1	1.5	2:1	10	165	6
AFS6-08001200-15-10P-6	8–16	42	1.5	1.5	2:1	10	200	6

OCTAVE/MODERATE BAND AFS AMPLIFIERS

MODEL NUMBER	FREQUENCY RANGE (GHz)	GAIN (dB, Min.)	GAIN FLATNESS (±dB, Max.)	NOISE FIGURE (dB, Max.)	VSWR IN/OUT (Max.)	OUTPUT POWER @ 1 dB COMP. (dBm, Min.)	NOM. DC POWER (15 V, mA)	OUTLINE DRAWING
OCTAVE BAND (CONT.)								
AFS2-12001800-25-8P-2	12–18	12	1.5	2.5	2:1	8	75	2
AFS3-12001800-20-10P-4	12–18	20	1.5	2	2:1	10	100	4
AFS4-12001800-18-10P-4	12–18	28	1.5	1.8	2:1	10	125	4
AFS5-12001800-18-10P-6	12–18	36	1.5	1.8	2:1	10	150	6
AFS6-12001800-18-10P-6	12–18	40	1.75	1.8	2:1	10	200	6
AFS2-12002400-32-5P-2	12–24	10	1.5	3.2	2:1	5	40	2
AFS3-12002400-30-5P-4	12–24	18	1.5	3	2:1	8	60	4
AFS4-12002400-30-10P-4	12–24	24	2	3	2:1	10	85	4
AFS33-12002400-30-10P-44	12–24	36	2	3	2:1	10	120	44
AFS2-18002650-35-5P-2	18–26.5	10	1.75	3.5	2.2:1/2:1	5	50	2
AFS3-18002650-30-8P-4	18–26.5	18	1.75	3	2.2:1	8	125	4
AFS32-18002650-30-8P-42	18–26.5	30	2.5	3	2.2:1	8	175	42
AFS33-18002650-30-8P-44	18–26.5	38	3	3	2.2:1	8	200	44
MODERATE BAND								
AFS1-00240027-08-10P-4	0.24–0.27	16	0.25	0.8	2:1	10	50	4
AFS2-00240027-08-10P-2	0.24–0.27	28	0.25	0.8	2:1	10	75	2
AFS3-00240027-08-10P-4	0.24–0.27	38	0.25	0.8	2:1	10	100	4
AFS4-00240027-08-10P-4	0.24–0.27	46	0.5	0.8	2:1	10	150	4
AFS1-00500060-08-15P-4	0.5–0.6	17	0.25	0.8	1.5:1	15	100	4
AFS2-00500060-06-10P-6	0.5–0.6	25	0.25	0.6	1.5:1	10	125	6
AFS3-00500060-06-10P-6	0.5–0.6	38	0.25	0.6	1.5:1	10	150	6
AFS4-00500060-06-10P-6	0.5–0.6	46	0.5	0.6	1.5:1	10	175	6
AFS1-00700080-08-13P-4	0.7–0.8	16	0.5	0.8	1.5:1	13	80	4
AFS2-00700080-06-10P-6	0.7–0.8	28	0.5	0.6	1.5:1	10	90	6
AFS3-00700080-06-15P-6	0.7–0.8	42	0.5	0.6	1.5:1	15	150	6
AFS4-00700080-06-15P-6	0.7–0.8	52	0.5	0.6	1.5:1	15	175	6
AFS1-00800100-08-13P-4	0.8–1	16	0.5	0.8	1.5:1	13	80	4
AFS2-00800100-05-10P-6	0.8–1	30	0.5	0.5	1.5:1	10	90	6
AFS3-00800100-05-15P-6	0.8–1	44	0.5	0.5	1.5:1	15	150	6
AFS4-00800100-05-15P-6	0.8–1	54	0.5	0.5	1.5:1	15	175	6
AFS1-00900120-08-13P-4	0.9–1.2	16	0.5	0.8	1.5:1	13	80	4
AFS2-00900120-05-10P-6	0.9–1.2	28	0.5	0.5	1.5:1	10	90	6
AFS3-00900120-05-13P-6	0.9–1.2	40	0.5	0.5	1.5:1	13	150	6
AFS4-00900120-05-15P-6	0.9–1.2	50	0.5	0.5	1.5:1	15	175	6
AFS1-00950145-08-10P-4	0.95–1.45	16	0.5	0.8	1.5:1	10	80	4
AFS2-00950145-05-10P-6	0.95–1.45	28	0.5	0.5	1.5:1	10	90	6
AFS3-00950145-05-13P-6	0.95–1.45	40	0.5	0.5	1.5:1	13	150	6
AFS4-00950145-05-15P-6	0.95–1.45	50	0.5	0.5	1.5:1	15	175	6
AFS1-00950175-08-10P-4	0.95–1.75	14	0.5	0.8	1.5:1	10	80	4
AFS2-00950175-06-10P-6	0.95–1.75	26	0.5	0.6	1.5:1	10	90	6
AFS3-00950175-06-13P-6	0.95–1.75	38	0.5	0.6	1.5:1	13	150	6
AFS4-00950175-06-15P-6	0.95–1.75	50	0.5	0.6	1.5:1	15	175	6
AFS1-01100180-08-10P-4	1.1–1.8	16	0.5	0.8	1.7:1	10	80	4
AFS2-01100180-06-10P-6	1.1–1.8	28	0.5	0.6	1.7:1	10	90	6
AFS3-01100180-06-13P-6	1.1–1.8	40	0.5	0.6	1.7:1	13	150	6
AFS4-01100180-06-15P-6	1.1–1.8	50	0.5	0.6	1.7:1	15	175	6
AFS1-01200140-08-10P-4	1.2–1.4	14	1.5	0.8	2:1/2.5:1	10	80	4
AFS2-01200140-05-10P-6	1.2–1.4	28	0.5	0.5	1.5:1	10	90	6
AFS3-01200140-05-13P-6	1.2–1.4	40	0.5	0.5	1.5:1	13	150	6
AFS4-01200140-05-15P-6	1.2–1.4	50	0.5	0.5	1.5:1	15	175	6

MODERATE BAND AFS AMPLIFIERS

MODEL NUMBER	FREQUENCY RANGE (GHz)	GAIN (dB, Min.)	GAIN FLATNESS (±dB, Max.)	NOISE FIGURE (dB, Max.)	VSWR IN/OUT (Max.)	OUTPUT POWER @ 1 dB COMP. (dBm, Min.)	NOM. DC POWER (15 V, mA)	OUTLINE DRAWING
MODERATE BAND (CONT.)								
AFS1-01200160-08-10P-4	1.2–1.6	14	1.5	0.8	2:1/2.5:1	10	80	4
AFS2-01200160-05-10P-6	1.2–1.6	28	0.5	0.5	1.5:1	10	90	6
AFS3-01200160-05-13P-6	1.2–1.6	40	0.5	0.5	1.5:1	13	150	6
AFS4-01200160-05-15P-6	1.2–1.6	50	0.5	0.5	1.5:1	15	175	6
AFS1-01300140-08-10P-4	1.3–1.4	16	0.5	0.8	1.5:1	10	80	4
AFS2-01300140-05-10P-6	1.3–1.4	28	0.5	0.5	1.5:1	10	90	6
AFS3-01300140-05-13P-6	1.3–1.4	40	0.5	0.5	1.5:1	13	150	6
AFS4-01300140-05-15P-6	1.3–1.4	50	0.5	0.5	1.5:1	15	175	6
AFS1-01400170-08-10P-4	1.4–1.7	15	0.5	0.8	1.5:1	10	80	4
AFS2-01400170-06-10P-6	1.4–1.7	28	0.5	0.6	1.5:1	10	90	6
AFS3-01400170-06-13P-6	1.4–1.7	40	0.5	0.6	1.5:1	13	150	6
AFS4-01400170-06-13P-6	1.4–1.7	50	0.5	0.6	1.5:1	13	175	6
AFS1-01500160-08-10P-4	1.5–1.6	15	0.5	0.8	1.5:1	10	80	4
AFS2-01500160-05-10P-6	1.5–1.6	28	0.5	0.5	1.5:1	10	90	6
AFS3-01500160-05-13P-6	1.5–1.6	40	0.5	0.5	1.5:1	13	150	6
AFS4-01500160-05-13P-6	1.5–1.6	50	0.5	0.5	1.5:1	13	175	6
AFS1-01500180-08-10P-4	1.5–1.8	16	0.5	0.8	1.5:1	10	80	4
AFS2-01500180-06-10P-6	1.5–1.8	28	0.5	0.6	1.5:1	10	90	6
AFS3-01500180-06-13P-6	1.5–1.8	40	0.5	0.6	1.5:1	13	150	6
AFS4-01500180-06-13P-6	1.5–1.8	50	0.5	0.6	1.5:1	13	175	6
AFS1-01500250-08-10P-4	1.5–2.5	14	0.5	0.8	2:1	10	80	4
AFS2-01500250-06-10P-6	1.5–2.5	28	0.5	0.6	1.8:1	10	90	6
AFS3-01500250-06-13P-6	1.5–2.5	38	1	0.6	1.8:1	13	150	6
AFS4-01500250-06-13P-6	1.5–2.5	46	1	0.6	1.8:1	13	175	6
AFS1-01700190-08-10P-4	1.7–1.9	14	0.5	0.8	1.5:1	10	80	4
AFS2-01700190-06-10P-6	1.7–1.9	25	0.5	0.6	1.5:1	10	90	6
AFS3-01700190-06-13P-6	1.7–1.9	38	0.5	0.6	1.5:1	13	150	6
AFS4-01700190-06-13P-6	1.7–1.9	46	0.5	0.6	1.5:1	13	175	6
AFS1-01800220-08-10P-4	1.8–2.2	14	0.5	0.8	2:1	10	80	4
AFS2-01800220-06-10P-6	1.8–2.2	25	0.5	0.6	1.5:1	10	90	6
AFS3-01800220-06-13P-6	1.8–2.2	38	0.5	0.6	1.5:1	13	150	6
AFS4-01800220-06-13P-6	1.8–2.2	46	0.5	0.6	1.5:1	13	175	6
AFS1-02200230-08-10P-4	2.2–2.3	14	0.5	0.8	1.5:1	10	80	4
AFS2-02200230-06-10P-4	2.2–2.3	25	0.5	0.6	1.5:1	10	90	4
AFS3-02200230-06-13P-4	2.2–2.3	38	0.5	0.6	1.5:1	13	150	4
AFS4-02200230-06-13P-6	2.2–2.3	46	0.5	0.6	1.5:1	13	175	6
AFS1-02300270-08-10P-4	2.3–2.7	14	0.5	0.8	2:1	10	80	4
AFS2-02300270-06-10P-4	2.3–2.7	26	0.5	0.6	1.5:1	10	90	4
AFS3-02300270-06-13P-6	2.3–2.7	36	0.5	0.6	1.5:1	13	150	6
AFS4-02300270-06-13P-6	2.3–2.7	46	0.5	0.6	1.5:1	13	175	6
AFS1-02700290-09-8P-4	2.7–2.9	14	0.5	0.9	2:1	8	80	4
AFS2-02700290-06-8P-4	2.7–2.9	23	0.5	0.6	1.5:1	8	90	4
AFS3-02700290-06-13P-6	2.7–2.9	32	0.5	0.6	1.5:1	13	150	6
AFS4-02700290-06-13P-6	2.7–2.9	42	0.5	0.6	1.5:1	13	175	6
AFS1-02700300-10-8P-4	2.7–3.0	14	0.5	1	2:1	8	80	4
AFS2-02700300-06-8P-4	2.7–3.0	25	0.5	0.6	1.5:1	8	90	4
AFS3-02700300-06-13P-6	2.7–3.0	34	0.5	0.6	1.5:1	13	150	6
AFS4-02700300-06-13P-6	2.7–3.0	45	0.5	0.6	1.5:1	13	175	6
AFS1-02900310-10-5P-4	2.9–3.1	12	0.5	1	2:1	5	80	4
AFS2-02900310-06-10P-4	2.9–3.1	23	0.5	0.6	1.5:1	10	90	4
AFS3-02900310-06-13P-6	2.9–3.1	32	0.5	0.6	1.5:1	13	150	6
AFS4-02900310-06-13P-6	2.9–3.1	40	0.5	0.6	1.5:1	13	180	6
AFS6-02900310-06-13P-6	2.9–3.1	46	0.5	0.6	1.5:1	13	200	6

MODERATE BAND AFS AMPLIFIERS

MODEL NUMBER	FREQUENCY RANGE (GHz)	GAIN (dB, Min.)	GAIN FLATNESS (±dB, Max.)	NOISE FIGURE (dB, Max.)	VSWR IN/OUT (Max.)	OUTPUT POWER @ 1 dB COMP. (dBm, Min.)	NOM. DC POWER (15 V, mA)	OUTLINE DRAWING
MODERATE BAND (CONT.)								
AFS1-03000350-10-10P-4	3–3.5	10	0.5	1	2:1	10	80	4
AFS2-03000350-06-10P-4	3–3.5	23	0.5	0.6	1.5:1	10	90	4
AFS3-03000350-06-10P-4	3–3.5	29	0.5	0.6	1.5:1	10	150	4
AFS4-03000350-06-13P-6	3–3.5	36	0.5	0.6	1.5:1	13	175	6
AFS3-03100350-06-10P-4	3.1–3.5	29	0.5	0.6	1.5:1	10	150	4
AFS1-03400420-10-5P-4	3.4–4.2	10	0.5	1	2:1	5	100	4
AFS2-03400420-06-8P-4	3.4–4.2	20	0.5	0.6	1.75:1	8	150	4
AFS3-03400420-06-13P-4	3.4–4.2	28	0.5	0.6	1.75:1	13	175	4
AFS4-03400420-10-13P-6	3.4–4.2	40	0.5	1	1.5:1	13	200	6
AFS3-04300480-07-S-4	4.3–4.8	30	0.5	0.7	1.5:1	10	100	4
AFS4-04300480-07-S-4	4.3–4.8	38	0.5	0.7	1.5:1	10	125	4
AFS3-04400510-07-S-4	4.4–5.1	30	0.5	0.7	1.5:1	10	100	4
AFS4-04400510-07-S-4	4.4–5.1	38	0.5	0.7	1.5:1	10	125	4
AFS3-04500480-07-S-4	4.5–4.8	30	0.5	0.7	1.5:1	10	100	4
AFS4-04500480-07-S-4	4.5–4.8	38	0.5	0.7	1.5:1	10	125	4
AFS5-04500480-07-S-5	4.5–4.8	44	0.75	0.7	1.5:1	10	150	5
AFS3-05200600-07-10P-4	5.2–6	30	0.5	0.7	1.5:1	10	100	4
AFS4-05200600-07-S-4	5.2–6	38	0.5	0.7	1.5:1	10	125	4
AFS3-05400590-07-S-4	5.4–5.9	30	0.5	0.7	1.5:1	10	100	4
AFS4-05400590-07-S-4	5.4–5.9	38	0.5	0.7	1.5:1	10	125	4
AFS3-05800650-07-S-4	5.8–6.5	30	0.5	0.7	1.5:1	10	100	4
AFS4-05800650-07-S-4	5.8–6.5	38	0.5	0.7	1.5:1	10	125	4
AFS3-05800670-07-S-4	5.8–6.7	30	0.5	0.7	1.5:1	10	100	4
AFS4-05800670-07-S-4	5.8–6.7	38	0.5	0.7	1.5:1	10	125	4
AFS3-05900640-07-S-4	5.9–6.4	30	0.5	0.7	1.5:1	10	100	4
AFS4-05900640-07-S-4	5.9–6.4	38	0.5	0.7	1.5:1	10	125	4
AFS3-06400720-07-S-4	6.4–7.2	30	0.5	0.7	1.5:1	10	100	4
AFS4-06400720-07-S-4	6.4–7.2	38	0.5	0.7	1.5:1	10	125	4
AFS3-06700710-07-S-4	6.7–7.1	30	0.5	0.7	1.5:1	10	100	4
AFS4-06700710-07-S-4	6.7–7.1	38	0.5	0.7	1.5:1	10	125	4
AFS3-07250775-06-10P-4	7.25–7.75	30	0.5	0.6	1.5:1	10	100	4
AFS4-07250775-07-S-4	7.25–7.75	38	0.5	0.7	1.5:1	10	125	4
AFS3-07300840-07-S-4	7.3–8.4	30	0.5	0.7	1.5:1	10	100	4
AFS4-07300840-07-S-4	7.3–8.4	38	0.5	0.7	1.5:1	10	125	4
AFS3-07900840-07-S-4	7.9–8.4	30	0.5	0.7	1.5:1	10	100	4
AFS4-07900840-07-S-4	7.9–8.4	38	0.5	0.7	1.5:1	10	125	4
AFS3-08000850-07-S-4	8–8.5	30	0.5	0.7	1.5:1	10	100	4
AFS4-08000850-07-S-4	8–8.5	38	0.5	0.7	1.5:1	10	125	4
AFS3-08500960-09-S-4	8.5–9.6	26	0.5	0.9	1.5:1	10	100	4
AFS4-08500960-08-S-4	8.5–9.6	32	0.75	0.8	1.5:1	10	125	4
AFS3-08501160-09-S-4	8.5–11.6	26	0.5	1	1.5:1	10	100	4
AFS4-08501160-09-S-4	8.5–11.6	32	0.75	1	1.5:1	10	125	4
AFS3-09000920-08-S-4	9–9.2	26	0.5	0.9	1.5:1	10	100	4
AFS4-09000920-08-S-4	9–9.2	32	0.75	0.9	1.5:1	10	125	4
AFS3-09000950-08-S-4	9–9.5	26	0.5	0.8	1.5:1	10	100	4
AFS4-09000950-08-S-4	9–9.5	32	0.75	0.8	1.5:1	10	125	4

MODERATE BAND AFS AMPLIFIERS

MODEL NUMBER	FREQUENCY RANGE (GHz)	GAIN (dB, Min.)	GAIN FLATNESS (±dB, Max.)	NOISE FIGURE (dB, Max.)	VSWR IN/OUT (Max.)	OUTPUT POWER @ 1 dB COMP. (dBm, Min.)	NOM. DC POWER (15 V, mA)	OUTLINE DRAWING
MODERATE BAND (CONT.)								
AFS3-09001000-09-S-4	9–10	26	0.5	1	1.5:1	10	100	4
AFS4-09001000-09-S-4	9–10	32	0.75	1	1.5:1	10	125	4
AFS3-09001100-09-S-4	9–11	26	0.5	0.9	1.5:1	10	100	4
AFS4-09001100-09-S-4	9–11	32	0.75	0.9	1.5:1	10	125	4
AFS3-09300950-08-S-4	9.3–9.5	26	0.5	0.9	1.5:1	10	100	4
AFS4-09300950-08-S-4	9.3–9.5	32	0.75	0.9	1.5:1	10	125	4
AFS3-09501050-09-S-4	9.5–10.5	26	0.5	1	1.5:1	10	100	4
AFS4-09501050-09-S-4	9.5–10.5	32	0.75	1	1.5:1	10	125	4
AFS3-10501070-09-S-4	10.5–10.7	26	0.5	1	1.5:1	10	100	4
AFS4-10501070-09-S-4	10.5–10.7	32	0.75	1	1.5:1	10	125	4
AFS3-10701170-09-S-4	10.7–11.7	26	0.5	1	1.5:1	10	100	4
AFS4-10701170-09-S-4	10.7–11.7	32	0.75	1	1.5:1	10	125	4
AFS2-10701370-22-10P-4	10.7–13.7	15	0.75	2.2	1.5:1	10	150	4
AFS3-10701370-20-10P-6	10.7–13.7	26	0.75	2	1.5:1	10	200	6
AFS4-10701370-18-10P-6	10.7–13.7	32	0.75	1.8	1.5:1	10	250	6
AFS3-10951175-09-S-4	10.95–11.75	26	0.5	1	1.5:1	10	100	4
AFS4-10951175-09-S-4	10.95–11.75	32	0.75	0.9	1.5:1	10	125	4
AFS3-11701220-09-S-4	11.7–12.2	26	0.5	1.1	1.5:1	10	100	4
AFS4-11701220-09-5P-4	11.7–12.2	32	0.75	0.9	1.5:1	10	125	4
AFS2-12201280-14-5P-2	12.2–12.8	14	0.75	1.4	1.4:1/1.5:1	5	80	2
AFS3-12201280-13-12P-4	12.2–12.8	20	0.75	1.3	1.3:1/1.5:1	12	150	4
AFS4-12201280-13-12P-4	12.2–12.8	25	1.5	1.3	2:1	12	200	4
AFS2-12701330-16-5P-2	12.7–13.3	12	0.75	1.6	1.5:1	5	80	2
AFS3-12701330-15-10P-4	12.7–13.3	22	0.75	1.5	1.5:1	10	125	4
AFS4-12701330-15-10P-4	12.7–13.3	30	0.75	1.5	1.5:1	10	175	4
AFS2-13201400-17-5P-2	13.2–14	12	0.75	1.7	1.5:1	5	80	2
AFS3-13201400-16-10P-4	13.2–14	22	0.75	1.6	1.5:1	10	125	4
AFS4-13201400-16-10P-4	13.2–14	30	0.75	1.6	1.5:1	10	175	4
AFS2-14001450-16-10P-2	14–14.5	12	0.75	1.6	1.5:1	10	80	2
AFS3-14001450-15-10P-4	14–14.5	22	0.75	1.5	1.5:1	10	125	4
AFS4-14001450-15-10P-4	14–14.5	30	0.75	1.5	1.5:1	10	175	4
AFS2-14501550-17-8P-2	14.5–15.5	12	0.75	1.7	1.5:1	8	80	2
AFS3-14501550-16-10P-4	14.5–15.5	22	0.75	1.6	1.5:1	10	125	4
AFS4-14501550-16-10P-4	14.5–15.5	30	0.75	1.6	1.5:1	10	175	4
AFS2-17001750-19-8P-2	17–17.5	10	0.75	1.9	1.5:1	8	80	2
AFS3-17001750-17-10P-4	17–17.5	18	0.75	1.7	1.5:1	10	125	4
AFS4-17001750-17-10P-4	17–17.5	26	0.75	1.7	1.5:1	10	175	4
AFS2-20202120-30-5P-2	20.2–21.2	10	1	3	1.5:1	5	40	2
AFS3-20202120-25-8P-4	20.2–21.2	18	1	2.5	1.5:1	8	80	4
AFS4-20202120-25-8P-4	20.2–21.2	24	1	2.5	1.5:1	8	175	4
AFS2-21202400-35-5P-2	21.2–24	8	1	3.5	2:1	5	40	2
AFS3-21202400-28-8P-4	21.2–24	16	1	2.8	2:1	8	80	4
AFS4-21202400-28-10P-4	21.2–24	23	1	2.8	2:1	10	100	4

NOTE: Higher P1 dB and gains are available.

HIGHER POWER AFS AMPLIFIERS

MODEL NUMBER	FREQUENCY RANGE (GHz)	GAIN (dB, Min.)	GAIN FLATNESS (±dB, Max.)	NOISE FIGURE (dB, Max.)	VSWR IN/OUT (Max.)	OUTPUT POWER @ 1 dB COMP. (dBm, Min.)	NOM. DC POWER (15 V, mA)	OUTLINE DRAWING
HIGHER POWER								
AFS1-00010100-30-25P-4	0.01–1	16	1.5	3*	2.5:1	25	200	4
AFS2-00010100-30-25P-6	0.01–1	25	1.5	3*	2:1/2.5:1	25	250	6
AFS2-00050100-30-27P-6	0.05–1	28	1.5	3*	2:1/2.5:1	27	275	6
AFS3-00050100-25-27P-6	0.05–1	36	1.5	2.5*	2:1/2.5:1	27	300	6
AFS1-00100100-18-23P-4	0.1–1	13	1	1.8	2:1	23	175	4
AFS2-00100100-25-25P-6	0.1–1	22	2	2.5	2:1/2.5:1	25	225	6
AFS3-00100100-25-27P-6	0.1–1	33	2	2.5	2:1/2.5:1	27	300	6
AFS4-00100100-20-27P-6	0.1–1	44	2	2	2:1/2.5:1	27	350	6
AFS1-00100200-18-20P-4	0.1–2	12	1.75	1.8	2:1	20	175	4
AFS2-00100200-25-23P-2	0.1–2	22	1.5	2.5	2:1	23	225	2
AFS3-00100200-25-27P-6	0.1–2	34	1.5	2.5	2:1/2.5:1	27**	275	6
AFS4-00100200-25-27P-6	0.1–2	44	1.75	2.5	2:1/2.5:1	27	300	6
AFS2-00100300-30-20P-4	0.1–3	18	1.25	3	2:1	20	200	4
AFS3-00100300-25-23P-6	0.1–3	28	1.5	2.5	2:1/2.5:1	23	275	6
AFS4-00100300-20-23P-6	0.1–3	33	1.75	2	2.5:1	23	300	6
AFS2-00100400-35-20P-2	0.1–4	16	1.5	3.5	2.2:1	20	200	2
AFS3-00100400-26-20P-4	0.1–4	24	1.5	2.6	2:1	20	250	4
AFS4-00100400-25-20P-4	0.1–4	30	1.5	2.5	2:1	20	300	4
AFS5-00100400-25-20P-5	0.1–4	36	1.5	2.5	2:1	20	350	5
AFS2-00100600-35-20P-2	0.1–6	16	1.5	3.5	2.2:1	20	200	2
AFS3-00100600-26-20P-4	0.1–6	24	1.5	2.6	2:1	20	250	4
AFS4-00100600-25-20P-4	0.1–6	30	1.5	2.5	2:1	20	300	4
AFS5-00100600-25-20P-5	0.1–6	36	1.5	2.5	2:1	20	350	5
AFS2-00100800-50-20P-2	0.1–8	14	1.5	5	2.2:1	20	200	2
AFS3-00100800-30-20P-4	0.1–8	24	1.5	3	2:1	20	250	4
AFS4-00100800-28-20P-4	0.1–8	30	1.5	2.8	2:1	20	300	4
AFS5-00100800-28-20P-5	0.1–8	35	1.5	2.8	2:1	20	350	5
AFS2-00101000-55-20P-2	0.1–10	10	1.5	5.5	2.2:1	20	200	2
AFS3-00101000-40-20P-4	0.1–10	18	1.5	4.5	2:1	20	250	4
AFS4-00101000-40-20P-4	0.1–10	27	1.5	4	2:1	20	300	4
AFS5-00101000-40-20P-5	0.1–10	35	2	4	2:1	20	350	5
AFS2-00101200-55-20P-2	0.1–12	10	2	5.5	2.2:1	20	200	2
AFS4-00101200-40-20P-4	0.1–12	27	2	4	2:1	20	300	4
AFS42-00101200-S-20P-42	0.1–12	35	2.25	4.5	2:1	20	350	42
AFS3-00501800-60-20P-4	0.5–18**	20	2.5	6	2.5:1/2.2:1	20	300	4
AFS4-00501800-60-20P-6	0.5–18**	25	2.75	6	2.5:1/2.2:1	20	350	6
AFS5-00501800-55-20P-6	0.5–18**	30	2.75	5.5	2.5:1/2.2:1	20	400	6
AFS8-00501800-55-20P-8	0.5–18**	38	2.75	5.5	2.5:1/2.2:1	20	450	8
AFS3-00502000-80-18P-4	0.5–20**	18	2.5	8	2.5:1/2.2:1	18	350	4
AFS5-00502000-60-18P-6	0.5–20**	25	3	6	2.5:1/2.2:1	18	360	6
AFS6-00502000-50-18P-6	0.5–20**	36	3	5	2.5:1/2.2:1	18	400	6
AFS1-01000200-16-20P-4	1–2	14	0.75	1.6	2:1	20	150	4
AFS2-01000200-20-23P-2	1–2	20	1.5	2	2:1	23	200	2
AFS3-01000200-25-27P-6	1–2	32	1.5	2.5	2:1	27	350	6
AFS2-02000400-35-20P-4	2–4	20	1.5	3.5	2:1	20	200	4
AFS4-02000400-30-25P-6	2–4	34	1.5	3	2:1	25	250	6

NOTE: Noise figure increases below 500 MHz in bands wider than 0.1–10 GHz.

* Noise figure degrades below 100 MHz. Please contact factory for details.

** Usable to 0.1 GHz.

HIGHER POWER AFS AMPLIFIERS (CONT.)

MODEL NUMBER	FREQUENCY RANGE (GHz)	GAIN (dB, Min.)	GAIN FLATNESS (±dB, Max.)	NOISE FIGURE (dB, Max.)	VSWR IN/OUT (Max.)	OUTPUT POWER @ 1 dB COMP. (dBm, Min.)	NOM. DC POWER (15 V, mA)	OUTLINE DRAWING
HIGHER POWER (CONT.)								
AFS2-04000800-40-20P-2	4-8	14	1	4	2:1	20	150	2
AFS3-04000800-40-20P-4	4-8	20	1	4	2:1	20	200	4
AFS4-04000800-25-22P-4	4-8	28	1.25	2.5	2:1	22	275	4
AFS5-04000800-25-22P-5	4-8	34	1.25	2.5	2:1	22	300	5
AFS3-08001200-35-20P-4	8-12	20	1.25	3.5	2:1	20	125	4
AFS4-08001200-40-20P-4	8-12	22	1.25	4	2:1	20	200	4
AFS5-08001200-S-20P-5	8-12	30	1.5	3	2:1	20	200	5
AFS42-08001200-30-20P-42	8-12	36	1.5	3	2:1	20	250	42
AFS3-12001800-50-20P-4	12-18	18	1.25	5	2:1	20	275	4
AFS6-12001800-40-20P-6	12-18	28	2	4	2:1	20	375	6
AFS8-12001800-40-20P-8	12-18	36	1.5	4	2:1	20	400	8
AFS3-08001800-60-21P-4	8-18	18	2	6	2:1	21	275	4
AFS5-08001800-40-21P-6	8-18	26	2.5	4	2:1	21	400	6
AFS8-08001800-40-21P-8	8-18	34	2.5	4	2:1	21	450	8
AFS5-06001800-50-20P-6	6-18	23	2	5	2:1	20	365	6
AFS7-06001800-50-20P-8	6-18	35	2.5	5	2:1	20	400	8
AFS1-02001800-80-20P-2	2-18	8	1.5	8	2.5:1/2:1	20	275	2
AFS3-02001800-60-20P-4	2-18	20	2	6	2.5:1/2:1	20	300	4
AFS4-02001800-60-20P-6	2-18	25	2.5	6	2.5:1/2:1	20	350	6
AFS6-02001800-60-20P-8	2-18	35	2.75	6	2.5:1/2:1	20	400	8