

LOW-NOISE AFD 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)
LOW-NOISE							
AFD3-005007-09	0.5–0.7	38	0.35	0.9	1.5:1	10	125
AFD3-005020-13	0.5–2	34	1	1.3	2:1	10	150
AFD3-006007-09	0.6–0.7	38	0.25	0.9	1.5:1	10	125
AFD3-006008-10	0.6–0.8	38	0.35	1	1.5:1	10	125
AFD3-007008-09	0.7–0.8	38	0.25	0.9	1.5:1	10	125
AFD3-007012-10	0.7–1.2	36	0.5	1	1.5:1	10	125
AFD3-008010-10	0.8–1	36	0.35	1	1.5:1	10	125
AFD3-012013-07	1.2–1.3	36	0.25	0.7	1.5:1	10	125
AFD3-012014-07	1.2–1.4	36	0.35	0.7	1.5:1	10	125
AFD3-013014-07	1.3–1.4	36	0.25	0.7	1.5:1	10	125
AFD3-014015-07	1.4–1.5	36	0.25	0.7	1.5:1	10	125
AFD3-014016-07	1.4–1.6	36	0.35	0.7	1.5:1	10	125
AFD3-014024-08	1.4–2.4	34	0.5	0.8	1.5:1	10	125
AFD3-015016-06	1.5–1.6	36	0.25	0.6	1.5:1	10	125
AFD3-015017-07	1.5–1.7	36	0.25	0.7	1.5:1	10	125
AFD3-015020-08	1.5–2	36	0.5	0.8	1.5:1	10	125
AFD3-015030-12	1.5–3	30	1	1.2	2:1	10	125
AFD3-016017-06	1.6–1.7	36	0.25	0.6	1.5:1	10	125
AFD3-016018-07	1.6–1.8	36	0.35	0.7	1.5:1	10	125
AFD3-017018-06	1.7–1.8	36	0.25	0.6	1.5:1	10	125
AFD3-017024-10	1.7–2.4	34	0.5	1	2:1/1.5:1	10	125
AFD3-018019-07	1.8–1.9	36	0.25	0.7	1.5:1	10	125
AFD3-018020-08	1.8–2	36	0.35	0.8	1.5:1	10	125
AFD3-020021-07	2–2.1	36	0.25	0.7	1.5:1	10	125
AFD3-020022-07	2–2.2	34	0.35	0.7	1.5:1	10	125
AFD3-020025-08	2–2.5	34	0.5	0.8	1.5:1	10	125
AFD3-021022-07	2.1–2.2	34	0.25	0.7	1.5:1	10	125
AFD3-022023-07	2.2–2.3	34	0.25	0.7	1.5:1	10	125
AFD3-022024-08	2.2–2.4	34	0.35	0.8	1.5:1	10	125
AFD3-023027-08	2.3–2.7	34	0.35	0.8	1.5:1	10	125
AFD3-024026-08	2.4–2.6	32	0.35	0.8	1.5:1/1.3:1	10	125
AFD3-025030-08	2.5–3	32	0.5	0.8	1.5:1	10	125
AFD3-027029-08	2.7–2.9	32	0.35	0.8	1.5:1/1.3:1	10	125
AFD3-027031-08	2.7–3.1	30	0.35	0.8	1.5:1/1.3:1	10	125
AFD3-029031-08	2.9–3.1	30	0.35	0.8	1.5:1/1.3:1	10	125
AFD3-030035-08	3–3.5	30	0.5	0.8	1.5:1	10	125
AFD3-031033-08	3.1–3.3	30	0.5	0.8	1.5:1	10	125
AFD3-037042-08	3.7–4.2	30	0.5	0.8	1.5:1	10	125
AFD2-005010-10	.5–1	25	1	1	2:1	5	100
AFD3-005010-07	.5–1	36	1	0.7	2:1	10	150
AFD4-005010-07	.5–1	45	1.5	0.7	2:1	10	175
AFD2-010020-10	1–2	25	0.75	1	2:1	8	100
AFD3-010020-06	1–2	36	1	0.6	2:1	10	150
AFD4-010020-06	1–2	44	1.25	0.6	2:1	10	175
AFD2-010040-20	1–4	22	1	2	2:1	10	100
AFD3-010040-20	1–4	32	1.5	2	2:1	10	150
AFD4-010040-20	1–4	36	1.5	2	2:1	10	175
AFD2-020040-15	2–4	24	1	1.5	2:1	5	30
AFD3-020040-09	2–4	34	1	0.9	2:1	10	150
AFD4-020040-09	2–4	40	1.5	0.9	2:1	10	220

NOTE: Please contact factory for exact outline dimensions.

LOW-NOISE/HIGHER POWER AFD 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)
LOW-NOISE (CONT.)							
AFD1-020045-20	2-4.5	10	0.7	2	2:1	5	50
AFD2-020045-15	2-4.5	20	1	1.5	2:1	5	100
AFD3-020045-15	2-4.5	30	1.5	1.5	2:1	10	160
AFD4-020045-15	2-4.5	40	1.5	1.5	2:1	10	260
AFD1-020060-30	2-6	8	0.75	3	2:1	8	50
AFD2-020060-25	2-6	17	1	2.5	2:1	8	100
AFD3-020060-25	2-6	26	1.25	2.5	2:1	10	160
AFD4-020060-25	2-6	35	1.5	2.5	2:1	10	220
AFD5-020060-25	2-6	44	1.75	2.5	2:1	10	280
AFD1-020080-30	2-8	8	0.75	3	2:1	8	50
AFD2-020080-25	2-8	16	1	2.5	2:1	8	100
AFD3-020080-25	2-8	24	1.5	2.5	2:1	10	160
AFD4-020080-25	2-8	33	1.5	2.5	2:1	10	220
AFD5-020080-25	2-8	41	1.75	2.5	2:1	10	280
AFD1-040080-25	4-8	8	0.5	2.5	2:1	5	40
AFD2-040080-23	4-8	17	0.75	2.3	2:1	8	80
AFD3-040080-23	4-8	27	1	2.3	2:1	12	150
AFD4-040080-23	4-8	34	1.5	2.3	2:1	12	220
AFD5-040080-23	4-8	42	1.75	2.3	2:1	12	290
AFD1-040120-45	4-12	6	1	4.5	2:1	5	100
AFD2-040120-30	4-12	13	1	3	2:1	10	120
AFD3-040120-30	4-12	19	1.25	3	2:1	10	180
AFD4-040120-30	4-12	25	1.5	3	2:1	10	260
AFD5-040120-30	4-12	31	1.75	3	2:1	10	300
AFD6-040120-30	4-12	37	2	3	2:1	10	360
AFD1-080120-35	8-12	6	1	3.5	2:1	5	50
AFD2-080120-30	8-12	13	1	3	2:1	10	120
AFD3-080120-25	8-12	19	1	2.5	2:1	12	180
AFD4-080120-25	8-12	25	1	2.5	2:1	12	240
AFD5-080120-25	8-12	31	1.25	2.5	2:1	12	300
AFD6-080120-25	8-12	37	1.5	2.5	2:1	12	360
HIGHER POWER							
AFD1-005010-17P	0.5-1	13	1	3	2:1	17	125
AFD1-005010-20P	0.5-1	12	1	3	2:1	20	150
AFD1-005010-23P	0.5-1	12	1	3.5	2:1	23	175
AFD1-005010-25P	0.5-1	12	1	4.5	2:1	25	190
AFD1-005010-30P	0.5-1	10	1.5	5	2:1	20	500
AFD2-005010-17P	0.5-1	26	1.5	3	2:1	17	200
AFD2-005010-20P	0.5-1	24	1.5	3	2:1	20	250
AFD2-005010-23P	0.5-1	24	1.5	3.5	2:1	23	275
AFD2-005010-25P	0.5-1	24	1.5	3.5	2:1	25	280
AFD3-005010-17P	0.5-1	35	1.5	2	2:1	17	250
AFD3-005010-20P	0.5-1	33	1.5	2	2:1	20	300
AFD3-005010-23P	0.5-1	33	1.5	2.5	2:1	23	330
AFD3-005010-25P	0.5-1	33	1.5	3	2:1	25	330
AFD1-010020-17P	1-2	11	0.75	3.5	2:1	17	125
AFD1-010020-20P	1-2	11	0.75	3.5	2:1	20	150
AFD1-010020-23P	1-2	11	0.75	4	2:1	23	175
AFD1-010020-25P	1-2	11	0.75	4.5	2:1	25	190
AFD2-010020-17P	1-2	25	1.25	3.5	2:1	17	200
AFD2-010020-20P	1-2	25	1.25	3.5	2:1	20	250
AFD2-010020-23P	1-2	25	1.25	4	2:1	23	275
AFD2-010020-25P	1-2	25	1.25	4	2:1	25	280
AFD3-010020-17P	1-2	33	1.5	2.5	2:1	17	250
AFD3-010020-20P	1-2	33	1.5	3	2:1	10	300
AFD3-010020-23P	1-2	30	1.5	3	2:1	23	325
AFD3-010020-25P	1-2	30	1.5	3	2:1	25	330
AFD3-010020-30P	1-2	30	1.5	3	2:1	30	675

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HIGHER POWER AFD 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)
HIGHER POWER (CONT.)							
AFD1-010040-15P	1-4	7	1	6	2:1	15	100
AFD1-010040-20P	1-4	6	1	7	2:1	20	160
AFD1-010040-23P	1-4	6	1	8	2:1	23	190
AFD2-010040-15P	1-4	15	1.25	5	2:1	15	160
AFD2-010040-20P	1-4	13	1.25	6	2:1	20	250
AFD2-010040-23P	1-4	13	1.25	7	2:1	23	270
AFD3-010040-15P	1-4	24	1.5	5	2:1	15	210
AFD3-010040-20P	1-4	22	1.5	5	2:1	20	300
AFD3-010040-23P	1-4	22	1.5	6	2:1	23	320
AFD4-010040-15P	1-4	33	2	4	2:1	15	250
AFD4-010040-20P	1-4	31	2	4	2:1	20	350
AFD4-010040-23P	1-4	31	2	5	2:1	23	370
AFD1-020040-17P	2-4	9	0.75	5	2:1	17	125
AFD1-020040-20P	2-4	8	0.75	5.5	2:1	20	150
AFD1-020040-23P	2-4	8	0.75	6	2:1	23	200
AFD1-020040-25P	2-4	7	0.75	6	2:1	25	275
AFD2-020040-17P	2-4	18	1.5	5	2:1	17	200
AFD2-020040-20P	2-4	16	1.5	5.5	2:1	20	250
AFD2-020040-23P	2-4	16	1	5.5	2:1	23	300
AFD2-020040-25P	2-4	15	1.25	6	2:1	25	375
AFD3-020040-17P	2-4	27	1.25	4	2:1	17	250
AFD3-020040-20P	2-4	24	1.25	4.5	2:1	20	300
AFD3-020040-23P	2-4	24	1.25	4.5	2:1	23	350
AFD3-020040-25P	2-4	24	1.25	5	2:1	25	425
AFD4-020040-17P	2-4	36	1.5	4	2:1	17	300
AFD4-020040-20P	2-4	32	1.5	4	2:1	20	350
AFD4-020040-23P	2-4	32	1.5	4	2:1	23	400
AFD4-020040-25P	2-4	32	1.5	4	2:1	25	475
AFD1-020060-15P	2-6	7	1	5.5	2:1	15	100
AFD1-020060-20P	2-6	6	1	6.5	2:1	20	160
AFD1-020060-23P	2-6	5	1	7.5	2:1	23	190
AFD2-020060-15P	2-6	15	1	4.5	2:1	15	160
AFD2-020060-20P	2-6	13	1.25	5.5	2:1	20	250
AFD2-020060-23P	2-6	11	1.25	6.5	2:1	23	270
AFD3-020060-15P	2-6	24	1	3.5	2:1	15	210
AFD3-020060-20P	2-6	22	1.5	4.5	2:1	20	300
AFD3-020060-23P	2-6	20	1.5	5.5	2:1	23	320
AFD4-020060-15P	2-6	32	1.25	3.5	2:1	15	260
AFD4-020060-20P	2-6	30	2	4.5	2:1	20	350
AFD4-020060-23P	2-6	28	2	4.5	2:1	23	370
AFD1-020080-15P	2-8	7	1	5.5	2:1	15	100
AFD1-020080-20P	2-8	6	1	6.5	2:1	20	160
AFD1-020080-23P	2-8	5	1	7.5	2:1	23	190
AFD2-020080-15P	2-8	15	1	5.5	2:1	15	160
AFD2-020080-20P	2-8	13	1.25	5.5	2:1	20	250
AFD2-020080-23P	2-8	11	1.25	6.5	2:1	23	270
AFD3-020080-15P	2-8	24	1.5	3.5	2:1	15	210
AFD3-020080-20P	2-8	22	1.5	4.5	2:1	20	300
AFD3-020080-23P	2-8	20	1	5.5	2:1	23	320
AFD4-020080-15P	2-8	32	1.25	4.5	2:1	15	260
AFD4-020080-20P	2-8	30	2	4.5	2:1	20	350
AFD4-020080-23P	2-8	28	2	3.5	2:1	23	370
AFD5-020080-15P	2-8	40	2	4.5	2:1	15	300
AFD5-020080-20P	2-8	38	2	4.5	2:1	20	390
AFD5-020080-23P	2-8	36	2	4.5	2:1	23	420

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HIGHER POWER AFD AMPLIFIERS

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HIGHER POWER (CONT.)							
AFD1-040080-17P	4-8	7	0.75	4.5	2:1	17	125
AFD1-040080-20P	4-8	7	0.75	6.5	2:1	20	150
AFD1-040080-23P	4-8	5	0.75	7.5	2:1	23	200
AFD1-040080-25P	4-8	6	0.75	7.5	2:1	25	275
AFD2-040080-17P	4-8	14	1	4	2:1	17	200
AFD2-040080-20P	4-8	14	1	5.5	2:1	20	250
AFD2-040080-23P	4-8	13	1	6.5	2:1	23	300
AFD2-040080-25P	4-8	12	1	6.5	2:1	25	375
AFD3-040080-17P	4-8	23	1	3.5	2:1	17	250
AFD3-040080-20P	4-8	23	1	4.5	2:1	20	300
AFD3-040080-23P	4-8	20	1	5.5	2:1	23	350
AFD3-040080-25P	4-8	20	1	5.5	2:1	25	425
AFD4-040080-17P	4-8	31	1.25	3.5	2:1	17	300
AFD4-040080-20P	4-8	31	1.25	4.5	2:1	20	350
AFD4-040080-23P	4-8	27	1.25	4.5	2:1	23	400
AFD4-040080-25P	4-8	27	1.25	4.5	2:1	25	475
AFD5-040080-17P	4-8	38	1.5	3.5	2:1	17	350
AFD5-040080-20P	4-8	38	1.5	4.5	2:1	20	400
AFD5-040080-23P	4-8	36	1.5	4.5	2:1	23	450
AFD5-040080-25P	4-8	36	1.5	4.5	2:1	25	525
AFD1-040120-15P	4-12	5	1	6.5	2:1	15	100
AFD2-040120-15P	4-12	10	1.25	5.5	2:1	15	275
AFD2-040120-20P	4-12	8	1.25	6.5	2:1	20	275
AFD2-040120-23P	4-12	8	1.25	6.5	2:1	23	300
AFD3-040120-15P	4-12	16	1.5	5.5	2:1	15	200
AFD3-040120-20P	4-12	14	1.5	5.5	2:1	20	280
AFD3-040120-23P	4-12	13	1.5	6.5	2:1	23	260
AFD4-040120-15P	4-12	23	1.75	5.5	2:1	15	250
AFD4-040120-20P	4-12	20	1.75	5.5	2:1	20	340
AFD4-040120-23P	4-12	19	1.75	5.5	2:1	23	320
AFD5-040120-15P	4-12	29	1.75	5.5	2:1	15	300
AFD5-040120-20P	4-12	26	2	5.5	2:1	20	400
AFD5-040120-23P	4-12	25	2	5.5	2:1	23	370
AFD6-040120-15P	4-12	35	2	5.5	2:1	15	350
AFD6-040120-20P	4-12	32	2	5.5	2:1	20	460
AFD6-040120-23P	4-12	31	2	5.5	2:1	23	420
AFD1-050100-15P	5-10	6	0.75	5.5	2:1	15	100
AFD1-050100-20P	5-10	5	0.75	6	2:1	20	170
AFD1-050100-23P	5-10	5	0.75	6	2:1	23	190
AFD2-050100-15P	5-10	12	1	4.5	2:1	15	150
AFD2-050100-20P	5-10	11	1	5	2:1	20	220
AFD2-050100-23P	5-10	10	1	6	2:1	23	280
AFD3-050100-15P	5-10	19	1.25	4.5	2:1	15	200
AFD3-050100-20P	5-10	18	1.25	5	2:1	20	280
AFD3-050100-23P	5-10	16	1.25	5	2:1	23	340
AFD4-050100-15P	5-10	26	1.5	4.5	2:1	15	250
AFD4-050100-20P	5-10	25	1.5	5	2:1	20	340
AFD4-050100-23P	5-10	23	1.5	5	2:1	23	400
AFD5-050100-15P	5-10	33	1.75	5	2:1	15	300
AFD5-050100-20P	5-10	32	1.75	5	2:1	20	400
AFD5-050100-23P	5-10	30	1.75	5	2:1	23	460
AFD6-050100-15P	5-10	40	2	4.5	2:1	15	350
AFD6-050100-20P	5-10	39	2	5	2:1	20	460
AFD6-050100-23P	5-10	37	2	5	2:1	23	520

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