

LOW, ULTRA-LOW NOISE AND MEDIUM POWER AFS AMPLIFIERS

| MODEL NUMBER | FREQUENCY RANGE (GHz) | GAIN (dB, Min.) | GAIN VARIATION (±dB, Max.) | NOISE FIGURE (dB, Max.) | VSWR IN/OUT (Max.) | OUTPUT POWER @ 1 dB COMP. (dBm, Min.) | OUTLINE DRAWING |
|-------------------------------|-----------------------|-----------------|----------------------------|-------------------------|--------------------|---------------------------------------|-----------------|
| AFS2-00500100-10-ULN | 0.5-1 | 23 | 1 | 1 | 2:1 | 10 | 2 |
| AFS3-01000200-10-ULN | 1-2 | 34 | 1 | 1 | 2:1 | 10 | 4 |
| AFS3-02000400-10-ULN | 2-4 | 28 | 1 | 1 | 2:1 | 10 | 4 |
| AFS3-02000600-12-ULN | 2-6 | 24 | 1 | 1.2 | 2:1 | 10 | 4 |
| AFS3-04000800-10-ULN | 4-8 | 28 | 1 | 1 | 2:1 | 10 | 4 |
| AFS3-08001200-14-ULN | 8-12 | 25 | 1 | 1.4 | 2:1 | 10 | 4 |
| AFS3-02000800-18-ULN | 2-8 | 24 | 1.5 | 1.8 | 2:1 | 10 | 4 |
| AFS4-12001800-28-ULN | 12-18 | 20 | 1.5 | 2.8 | 2:1 | 10 | 4 |
| AFS4-08001800-30-ULN | 8-18 | 20 | 1.75 | 3 | 2:1 | 10 | 4 |
| AFS4-06001800-35-ULN | 6-18 | 18 | 2 | 3.5 | 2:1 | 10 | 4 |
| AFS4-02001800-35-ULN | 2-18 | 22 | 2.5 | 3.5 | 2:1 | 10 | 4 |
| AFS3-00100200-15-ULN | 0.1-2 | 36 | 1 | 1.5 | 2:1 | 10 | 4 |
| AFS3-00100400-18-ULN | 0.1-4 | 24 | 1.3 | 1.8 | 2:1 | 10 | 4 |
| AFS3-00100600-20-ULN | 0.1-6 | 24 | 1.5 | 2 | 2:1 | 10 | 4 |
| AFS3-00100800-25-ULN | 0.1-8 | 24 | 1.5 | 2.5 | 2:1 | 10 | 4 |
| AFS3-00101000-32-ULN | 0.1-10 | 20 | 1.5 | 3.2 | 2:1 | 10 | 4 |
| AFS3-00101200-35-ULN | 0.1-12 | 20 | 1.75 | 3.5* | 2:1 | 10 | 4 |
| AFS4-00101800-40-ULN | 0.1-18 | 22 | 2.5 | 4* | 2.5:1 | 10 | 4 |
| AFS4-00102000-50-ULN | 0.1-20 | 16 | 2.8 | 5* | 2.5:1 | 10 | 4 |
| OCTAVE AND MULTIOCTAVE | | | | | | | |
| AFS2-00100050-13-LN | 0.1-0.5 | 25 | 1 | 1.3 | 2:1 | 10 | 2 |
| AFS2-00500100-12-LN | 0.5-0.1 | 23 | 1 | 1.2 | 2:1 | 10 | 2 |
| AFS3-01000200-15-LN | 1-2 | 34 | 1 | 1.5 | 2:1 | 10 | 4 |
| AFS3-02000400-13-LN | 2-4 | 28 | 1 | 1.3 | 2:1 | 10 | 4 |
| AFS3-02000600-15-LN | 2-6 | 24 | 1 | 1.5 | 2:1 | 10 | 4 |
| AFS3-04000800-16-LN | 4-8 | 24 | 1 | 1.6 | 2:1 | 10 | 4 |
| AFS3-08001200-22-LN | 8-12 | 22 | 1 | 2.2 | 2:1 | 10 | 4 |
| AFS3-02000800-24-LN | 2-8 | 24 | 1.5 | 2.4 | 2:1 | 10 | 4 |
| AFS4-12001800-32-LN | 12-18 | 20 | 1.5 | 3.2 | 2:1 | 10 | 4 |
| AFS4-08001800-35-LN | 8-18 | 20 | 1.75 | 3.5 | 2:1 | 10 | 4 |
| AFS4-06001800-40-LN | 6-18 | 18 | 2 | 4 | 2:1 | 10 | 4 |
| AFS3-02001800-50-LN | 2-18 | 20 | 2.5 | 5 | 2:1 | 10 | 4 |
| ULTRA-WIDEBAND | | | | | | | |
| AFS3-00100200-18-LN | 0.1-2 | 36 | 1 | 1.8 | 2:1 | 10 | 4 |
| AFS3-00100400-22-LN | 0.1-4 | 24 | 1.25 | 2.2 | 2:1 | 10 | 4 |
| AFS3-00100600-25-LN | 0.1-6 | 24 | 1.5 | 2.5 | 2:1 | 10 | 4 |
| AFS3-00100800-32-LN | 0.1-8 | 24 | 1.5 | 3.2 | 2:1 | 10 | 4 |
| AFS3-00101000-38-LN | 0.1-10 | 22 | 1.5 | 3.8 | 2:1 | 10 | 4 |
| AFS3-00101200-42-LN | 0.1-12 | 22 | 1.75 | 4.2* | 2:1 | 10 | 4 |
| AFS4-00101800-55-LN | 0.1-18 | 20 | 2.5 | 5.5* | 2.5:1 | 10 | 4 |
| AFS4-00102000-60-LN | 0.1-20 | 16 | 2.75 | 6* | 2.5:1 | 10 | 4 |
| MEDIUM POWER | | | | | | | |
| AFS2-00500400-20P-MP | 0.5-4 | 24 | 1.5 | 4 | 2:1/2.5:1 | 20 | 4 |
| AFS3-00100600-20P-MP | 0.1-6 | 24 | 1.5 | 4.6 | 2:1 | 20 [†] | 4 |
| AFS4-00100800-20P-MP | 0.1-8 | 24 | 2 | 4.8 | 2:1 | 20 [†] | 4 |
| AFS4-00101200-20P-MP | 0.1-12 | 26 | 2 | 5.3* | 2:1 | 20 [†] | 4 |
| AFS3-04000800-20P-MP | 4-8 | 25 | 1.25 | 3.8 | 2:1 | 20 | 4 |
| AFS4-08001200-20P-MP | 8-12 | 20 | 1 | 4.8 | 2:1 | 20 | 4 |
| AFS4-02000800-20P-MP | 2-8 | 24 | 1.5 | 5.8 | 2:1 | 20 | 4 |

* Noise figure increases below 500 MHz.
[†] Above 500 MHz.

LOW NOISE AND MEDIUM POWER AFD AMPLIFIERS

| MODEL NUMBER | FREQUENCY RANGE (GHz) | GAIN (dB, Min.) | GAIN VARIATION (\pm dB, Max.) | NOISE FIGURE (dB, Max.) | VSWR IN/OUT (Max.) | OUTPUT POWER @ 1 dB COMP. (dBm, Min.) |
|-------------------------------|-----------------------|-----------------|----------------------------------|-------------------------|--------------------|---------------------------------------|
| MODERATE BAND | | | | | | |
| AFD3-012014-09-LN | 1.2–1.4 | 34 | 0.25 | 0.9 | 1.5:1 | 15 |
| AFD3-022023-10-LN | 2.2–2.3 | 30 | 0.5 | 1 | 1.5:1 | 10 |
| AFD3-023027-10-LN | 2.3–2.7 | 30 | 0.5 | 1 | 1.5:1 | 10 |
| AFD3-027031-10-LN | 2.7–3.1 | 30 | 0.5 | 1 | 1.5:1 | 10 |
| AFD3-031035-10-LN | 3.1–3.5 | 30 | 0.5 | 1 | 1.5:1 | 10 |
| AFD3-037042-10-LN | 3.7–4.2 | 30 | 0.5 | 1 | 1.5:1 | 10 |
| OCTAVE AND MULTIOCTAVE | | | | | | |
| AFD2-005010-12-LN | 0.5–1 | 20 | 1 | 1.2 | 2:1 | 10 |
| AFD3-005010-12-LN | 0.5–1 | 32 | 1 | 1.2 | 2:1 | 10 |
| AFD2-010020-12-LN | 1–2 | 22 | 1 | 1.2 | 2:1 | 10 |
| AFD3-010020-12-LN | 1–2 | 32 | 1 | 1.2 | 2:1 | 10 |
| AFD3-010020-10-LN | 1–2 | 32 | 1 | 1 | 2:1 | 10 |
| AFD3-020040-13-LN | 2–4 | 30 | 1 | 1.3 | 2:1 | 10 |
| AFD3-040080-28-LN | 4–8 | 25 | 1 | 2.8 | 2:1 | 10 |
| AFD3-080120-42-LN | 8–12 | 20 | 1 | 4.2 | 2:1 | 10 |
| AFD2-004014-12-LN | 0.4–1.4 | 25 | 1 | 1.2 | 2:1 | 10 |
| AFD3-005020-14-LN | 0.5–2 | 34 | 1 | 1.4 | 2:1 | 10 |
| AFD3-020080-33-LN | 2–8 | 24 | 1.5 | 3.3 | 2:1 | 10 |
| AFD3-040120-47-LN | 4–12 | 19 | 1.5 | 4.7 | 2:1 | 10 |
| MEDIUM POWER | | | | | | |
| AFD3-027031-25P-MP | 2.7–3.1 | 22 | 1 | 4.5 | 2:1 | 25 |
| AFD3-031042-25P-MP | 3.1–4.2 | 22 | 1 | 4.5 | 2:1 | 25 |
| AFD3-040080-25P-MP | 4–8 | 20 | 1 | 5 | 2:1 | 25 |
| AFD3-080120-23P-MP | 8–12 | 16 | 1.25 | 6 | 2:1 | 23 |
| AFD3-010040-23P-MP | 1–4 | 22 | 1.5 | 5.5 | 2:1 | 23 |
| AFD3-020080-23P-MP | 2–8 | 19 | 1.5 | 5.5 | 2:1 | 23 |
| AFD3-040120-20P-MP | 4–12 | 15 | 1.5 | 6 | 2:1 | 20 |

NOTE: Please contact factory for exact outline dimensions.