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General Purpose Amplifier Cross Reference.



| Part # | Supplier | Frequency Range (MHz) | Small Signal Gain (dB) | Noise Figure (dB) | P1dB (dBm) | OIP3 (dBm) | Supply Voltage (V) | Current (mA) | Package | Thermal Resistance R _{θJC} (°C/W) |
|----------|-----------|-----------------------|------------------------|-------------------|------------|------------|--------------------|--------------|---------|--|
| MMG3001 | Freescale | 40–3600 | 20 | 3.6 | 18.5 | 32 | 5.6 | 58 | SOT89 | 92.0 |
| AG403-89 | WJ | DC–6000 | 20.6 | 3.8 | 17.6 | 30.6 | 6 | 60 | SOT89 | 207.0 |
| RF2044 | RFMD | DC–6000 | 20 | 4.1 | 18.5 | 33.5 | 4.3–5.3 | 65 | Micro-X | 260.0 |
| AG604-89 | WJ | DC–6000 | 21.4 | 5.2 | 19 | 32 | 6 | 75 | SOT89 | 154.0 |
| MMG3002 | Freescale | 40–3600 | 20 | 3.6 | 21 | 37.5 | 5.2 | 110 | SOT89 | 46.5 |
| AG603-89 | WJ | DC–6000 | 17.4 | 4.9 | 18.7 | 34.4 | 6 | 75 | SOT89 | 154.0 |
| EC-1019 | EiC | DC–6000 | 18.5 | 5.5 | 19 | 34 | 4.2–5.2 | 70 | SOT89 | N/A |
| AG604-89 | WJ | DC–6000 | 21.4 | 5.2 | 19 | 32 | 6 | 75 | SOT89 | 154.0 |
| RF2044 | RFMD | DC–6000 | 20 | 4.1 | 18.5 | 33.5 | 4.3–5.3 | 65 | Micro-X | 260.0 |
| MMG3003 | Freescale | 40–3600 | 20 | 3.6 | 24 | 40.5 | 6.2 | 180 | SOT89 | 31.6 |
| AH102 | WJ | 350–3000 | 12.5 | 4.5 | 27 | 45 | 9 | 200 | SOT89 | 25.0 |
| FP1189 | WJ | 50–4000 | 18 | 2.7 | 27 | 40 | 8 | 125 | SOT89 | 68.0 |
| ECG003 | EiC | DC–6000 | 20 | 3.4 | 24 | 39 | 7.2 | 110 | SOT89 | N/A |
| AH114 | WJ | 60–2500 | 19 | 5 | 23 | 40 | 5 | 150 | SOT89 | 149.0 |
| ECG-008B | EiC | DC–6000 | 15 | 4.6 | 24 | 40 | 6.8–7.8 | 120 | SOT89 | 86.0 |
| ECG-014 | EiC | 50–2000 | 20.5 | 5 | 24 | 40 | 8 | 100 | SOT89 | 90.0 |
| SXA-389 | Sirenza | 400–2500 | 19 | 5.5 | 25 | 42 | 5 | 105 | SOT89 | 100.0 |
| SXT-289 | Sirenza | 1800–2500 | 15 | 5 | 23 | 41 | 5 | 110 | SOT89 | 108.0 |
| SXA-289 | Sirenza | 5–2000 | 15.5 | 5 | 24 | 42 | 5 | 105 | SOT89 | 108.0 |
| ECG-009B | EiC | DC–2500 | 19 | 5.7 | 24 | 41 | 5 | 150 | SOT89 | 86.0 |

FUTURE PRODUCTS

| Part # | Supplier | Frequency Range (MHz) | Small Signal Gain (dB) | Noise Figure (dB) | P1dB (dBm) | OIP3 (dBm) | Supply Voltage (V) | Current (mA) | Package | Thermal Resistance R _{θJC} (°C/W) |
|----------|-----------|-----------------------|------------------------|-------------------|------------|------------|--------------------|--------------|------------|--|
| MMG3004 | Freescale | 400–2400 | 19 | 4.5 | 27 | 44 | 5 | 240 | PQFN5x5 | TBD |
| AH101 | WJ | 50–1500 | 13 | 5 | 27 | 45 | 9 | 200 | SOT89 | 25.0 |
| AH102 | WJ | 350–3000 | 12.5 | 4.5 | 27 | 45 | 9 | 200 | SOT89 | 25.0 |
| FP1189 | WJ | 50–4000 | 18 | 2.7 | 27 | 40 | 8 | 125 | SOT89 | 68.0 |
| ECG003 | EiC | DC–6000 | 20 | 3.4 | 24 | 39 | 7.2 | 110 | SOT89 | TBD |
| MMG3005 | Freescale | 400–2400 | 15 | 5.5 | 30 | 47 | 5 | 480 | PQFN5x5 | TBD |
| AH210 | WJ | 1700–2200 | 23 | 5.5 | 30 | 47 | 5 | 400 | SOIC-8 | N/A |
| RF5187 | RFMD | 800–2500 | 14 | | 29 | 43 | 3–6 | 240 | SOIC-8 | N/A |
| AH215 | WJ | 400–2300 | 17 | 6 | 31 | 46 | 5 | 450 | SOIC-8 (B) | 33.0 |
| AH201 | WJ | 50–2200 | 17 | 4 | 30 | 47 | 11 | 350 | QFN | 17.5 |
| MMG3006 | Freescale | 400–2500 | 17 | 7 | 33 | 50 | 5 | 800 | PQFN5x5 | TBD |
| AH312 | WJ | 400–2300 | 18 | 8 | 33 | 49 | 5 | 800 | SOIC-8 (B) | 303.0 |
| MMG3007 | Freescale | DC–6000 | 20 | 4 | 15 | 29 | 5 | 45 | SOT89 | TBD |
| AG303-86 | WJ | DC–6000 | 20.4 | 3.7 | 12.5 | 26 | 5 | 35 | SOT86 | 303.0 |
| MMG3009 | Freescale | DC-6000 | 15 | 4 | 18 | 32 | 5 | 58 | SOT89 | TBD |
| AG602-89 | WJ | DC–6000 | 14 | 5.5 | 18.2 | 34.4 | 6 | 75 | SOT89 | 154.0 |
| AM1 | WJ | 60–3000 | 14 | 2.4 | 18 | 39 | 4.5 | 75 | SOT89 | N/A |
| NGA-489 | Sirenza | 500–10000 | 15 | 4 | 17 | 38 | 4 | 65 | SOT89 | 145.0 |
| RF2045 | RFMD | DC–6000 | 13.6 | 1 GHz:5 | 17.8 | 33 | 4.6–5.6 | 65 | Micro-X | 237.0 |
| AG402-89 | WJ | DC–6000 | 15 | 4.3 | 16.6 | 32.2 | 6 | 60 | SOT89 | 191.0 |
| MMG3010 | Freescale | DC–6000 | 15 | 4 | 15 | 29 | 5 | 45 | SOT89 | TBD |
| AG302-86 | WJ | DC–6000 | 15 | 3.9 | 12.3 | 27.4 | 5 | 35 | SOT86 | 410.0 |
| AG303-86 | WJ | DC–6000 | 20.4 | 3.7 | 12.5 | 26 | 5 | 35 | SOT86 | 335.0 |
| AG402-89 | WJ | DC–6000 | 15 | 4.3 | 16.6 | 32.2 | 6 | 60 | SOT89 | 191.0 |
| MMG3011 | Freescale | DC–6000 | 15 | 4 | 12 | 26 | 5 | 35 | SOT89 | TBD |
| AG302-63 | WJ | DC–6000 | 15.3 | 3.9 | 12.4 | 27.6 | 5 | 35 | SOT63 | 325.0 |
| RF2047 | RFMD | DC–8000 | 16 | 2 GHz:4.2 | 11.9 | 26 | 3–4 | 40 | Micro-X | 291.0 |
| MMG3101 | Freescale | 250–3000 | 13.5 | 2.7 | 21 | 41 | 5 | 150 | SOT89 | TBD |
| AH1 | WJ | 250–3000 | 13.5 | 2.7 | 21 | 41 | 5 | 150 | SOT89 | 59.0 |
| AH210 | WJ | 1700–2200 | 23 | 5.5 | 30 | 47 | 5 | 400 | SOIC-8 | N/A |

While this document attempts to present accurate and reliable information, Freescale does not guarantee its accuracy, reliability, quality, completeness, or timeliness.