

**2.7 - 3.1GHz AMPLIFIERS**  
**Uncompensated**      **MLA 2543-000 Series**  
**Temperature Compensated**      **MLA 2643-000 Series**

**UNCOMPENSATED SPECIFICATIONS** (guaranteed @ +25°C)

| Frequency Range (GHz) | Output Power at 1dB Gain Comp (dBm) Min. | Gain (dB) Min. | Gain Flatness (dB) Max. | Gain Variation with Temp (dB/°C) Max. | Noise Figure (dB) Max. | Input and Output VSWR Max. | DC Current at +15V (mA) | Package Styles | Part Number  |
|-----------------------|------------------------------------------|----------------|-------------------------|---------------------------------------|------------------------|----------------------------|-------------------------|----------------|--------------|
| 2.7 - 3.1             | +12                                      | 12             | ±0.20                   | 0.012                                 | 1.5                    | 1.8                        | 80                      | A1, A3         | MLA 2543-101 |
|                       |                                          | 24             | ±0.40                   | 0.024                                 | 1.5                    | 1.8                        | 160                     | A1, A3         | MLA 2543-102 |
|                       |                                          | 36             | ±0.50                   | 0.036                                 | 1.5                    | 1.8                        | 240                     | B1, B3         | MLA 2543-103 |
|                       |                                          | 48             | ±0.50                   | 0.050                                 | 1.5                    | 1.8                        | 320                     | B1, B3         | MLA 2543-104 |
|                       | +18                                      | 11             | ±0.20                   | 0.012                                 | 3.0                    | 1.6                        | 100                     | A1, A3         | MLA 2543-201 |
|                       |                                          | 23             | ±0.40                   | 0.024                                 | 2.0                    | 1.6                        | 180                     | A1, A3         | MLA 2543-202 |
|                       |                                          | 35             | ±0.50                   | 0.036                                 | 2.0                    | 1.6                        | 260                     | B1, B3         | MLA 2543-203 |
|                       |                                          | 46             | ±0.50                   | 0.050                                 | 2.0                    | 1.6                        | 340                     | B1, B3         | MLA 2543-204 |
|                       | +21                                      | 10             | ±0.30                   | 0.012                                 | 4.0                    | 1.6                        | 120                     | A1, A3         | MLA 2543-301 |
|                       |                                          | 22             | ±0.40                   | 0.024                                 | 3.0                    | 1.6                        | 220                     | A1, A3         | MLA 2543-302 |
|                       |                                          | 34             | ±0.50                   | 0.036                                 | 2.0                    | 1.6                        | 300                     | B1, B3         | MLA 2543-303 |
|                       |                                          | 45             | ±0.50                   | 0.050                                 | 2.0                    | 1.6                        | 380                     | B1, B3         | MLA 2543-304 |
|                       | +26                                      | 9              | ±0.30                   | 0.012                                 | 6.0                    | 1.8                        | 200                     | A1, A3         | MLA 2543-401 |
|                       |                                          | 20             | ±0.40                   | 0.024                                 | 4.0                    | 1.8                        | 320                     | A1, A3         | MLA 2543-402 |
|                       |                                          | 31             | ±0.50                   | 0.036                                 | 3.0                    | 1.8                        | 420                     | B1, B3         | MLA 2543-403 |
|                       |                                          | 43             | ±0.50                   | 0.050                                 | 3.0                    | 1.8                        | 500                     | B1, B3         | MLA 2543-404 |
|                       | +29                                      | 7              | ±0.50                   | 0.012                                 | 7.0                    | 1.8                        | 400                     | A1, A3         | MLA 2543-501 |
|                       |                                          | 16             | ±0.75                   | 0.024                                 | 6.0                    | 1.8                        | 600                     | A1, A3         | MLA 2543-502 |
|                       |                                          | 26             | ±1.00                   | 0.036                                 | 5.0                    | 1.8                        | 700                     | B1, B3         | MLA 2543-503 |
|                       |                                          | 36             | ±1.00                   | 0.050                                 | 4.0                    | 1.8                        | 800                     | B1, B3         | MLA 2543-504 |

**TEMPERATURE COMPENSATED SPECIFICATIONS** (guaranteed -55°C to +95°C)

| Frequency Range (GHz) | Output Power at 1dB Gain Comp (dBm) Min. | Gain (dB) Min. | Gain Flatness (dB) Max. | Gain Variation with Temp (dB/°C) Max. | Noise Figure (dB) Max. | Input and Output VSWR Max. | DC Current at +15V (mA) | Package Styles | Part Number  |
|-----------------------|------------------------------------------|----------------|-------------------------|---------------------------------------|------------------------|----------------------------|-------------------------|----------------|--------------|
| 2.7 - 3.1             | +12                                      | 10             | ±0.30                   | ±0.50                                 | 2.5                    | 1.8                        | 80                      | A1, A3         | MLA 2643-101 |
|                       |                                          | 21             | ±0.50                   | ±0.75                                 | 2.2                    | 1.8                        | 160                     | A1, A3         | MLA 2643-102 |
|                       |                                          | 32             | ±0.60                   | ±1.00                                 | 2.2                    | 1.8                        | 240                     | B1, B3         | MLA 2643-103 |
|                       |                                          | 43             | ±0.60                   | ±1.50                                 | 2.2                    | 1.8                        | 320                     | B1, B3         | MLA 2643-104 |
|                       | +18                                      | 9              | ±0.30                   | ±0.50                                 | 4.0                    | 1.6                        | 100                     | A1, A3         | MLA 2643-201 |
|                       |                                          | 20             | ±0.50                   | ±0.75                                 | 3.0                    | 1.6                        | 180                     | A1, A3         | MLA 2643-202 |
|                       |                                          | 31             | ±0.60                   | ±1.00                                 | 3.0                    | 1.6                        | 260                     | B1, B3         | MLA 2643-203 |
|                       |                                          | 42             | ±0.60                   | ±1.50                                 | 3.0                    | 1.6                        | 340                     | B1, B3         | MLA 2643-204 |
|                       | +21                                      | 8              | ±0.30                   | ±0.50                                 | 5.0                    | 1.6                        | 120                     | A1, A3         | MLA 2643-301 |
|                       |                                          | 19             | ±0.50                   | ±0.75                                 | 4.0                    | 1.6                        | 220                     | A1, A3         | MLA 2643-302 |
|                       |                                          | 30             | ±0.60                   | ±1.00                                 | 3.0                    | 1.6                        | 300                     | B1, B3         | MLA 2643-303 |
|                       |                                          | 41             | ±0.60                   | ±1.50                                 | 3.0                    | 1.6                        | 380                     | B1, B3         | MLA 2643-304 |
|                       | +26                                      | 7              | ±0.30                   | ±0.50                                 | 6.0                    | 1.8                        | 200                     | A1, A3         | MLA 2643-401 |
|                       |                                          | 18             | ±0.50                   | ±0.75                                 | 5.0                    | 1.8                        | 320                     | A1, A3         | MLA 2643-402 |
|                       |                                          | 28             | ±0.60                   | ±1.00                                 | 4.0                    | 1.8                        | 420                     | B1, B3         | MLA 2643-403 |
|                       |                                          | 37             | ±0.60                   | ±1.50                                 | 4.0                    | 1.8                        | 500                     | B1, B3         | MLA 2643-404 |
|                       | +29                                      | 6              | ±0.50                   | ±0.50                                 | 8.0                    | 1.8                        | 400                     | A1, A3         | MLA 2643-501 |
|                       |                                          | 15             | ±0.75                   | ±0.75                                 | 7.0                    | 1.8                        | 600                     | A1, A3         | MLA 2643-502 |
|                       |                                          | 25             | ±1.00                   | ±1.00                                 | 6.0                    | 1.8                        | 700                     | B1, B3         | MLA 2643-503 |
|                       |                                          | 33             | ±1.00                   | ±1.50                                 | 5.0                    | 1.8                        | 800                     | B1, B3         | MLA 2643-504 |

M/A-COM Ltd, Humphrys Road, Dunstable, Bedfordshire, LU5 4SX United Kingdom.

Europe: (44) 1344 869595

North America: 800 366 2266

Asia Pacific: (81) 3 3226 1671