

**6.4 - 7.2GHz AMPLIFIERS**  
**Uncompensated**      **MLA 2552-000 Series**  
**Temperature Compensated**      **MLA 2652-000 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  |
|-----------------------|------------------------------------------|----------------|-------------------------|---------------------------------------|------------------------|----------------------------|-------------------------|----------------|--------------|
| 6.4 - 7.2             | +12                                      | 11             | ±0.30                   | 0.012                                 | 1.5                    | 1.8                        | 80                      | A1, A3         | MLA 2552-101 |
|                       |                                          | 22             | ±0.40                   | 0.024                                 | 1.5                    | 1.8                        | 160                     | A1, A3         | MLA 2552-102 |
|                       |                                          | 33             | ±0.50                   | 0.036                                 | 1.5                    | 1.8                        | 240                     | B1, B3         | MLA 2552-103 |
|                       |                                          | 44             | ±0.50                   | 0.050                                 | 1.5                    | 1.8                        | 320                     | B1, B3         | MLA 2552-104 |
|                       | +18                                      | 10             | ±0.30                   | 0.012                                 | 4.0                    | 1.6                        | 100                     | A1, A3         | MLA 2552-201 |
|                       |                                          | 20             | ±0.40                   | 0.024                                 | 3.0                    | 1.6                        | 180                     | A1, A3         | MLA 2552-202 |
|                       |                                          | 30             | ±0.50                   | 0.036                                 | 3.0                    | 1.6                        | 260                     | B1, B3         | MLA 2552-203 |
|                       |                                          | 40             | ±0.50                   | 0.050                                 | 3.0                    | 1.6                        | 340                     | B1, B3         | MLA 2552-204 |
|                       | +21                                      | 9              | ±0.40                   | 0.012                                 | 5.0                    | 1.6                        | 120                     | A1, A3         | MLA 2552-301 |
|                       |                                          | 19             | ±0.50                   | 0.024                                 | 4.0                    | 1.6                        | 220                     | A1, A3         | MLA 2552-302 |
|                       |                                          | 29             | ±0.50                   | 0.036                                 | 3.0                    | 1.6                        | 300                     | B1, B3         | MLA 2552-303 |
|                       |                                          | 39             | ±0.50                   | 0.050                                 | 3.0                    | 1.6                        | 380                     | B1, B3         | MLA 2552-304 |
|                       | +26                                      | 8              | ±0.40                   | 0.012                                 | 6.0                    | 1.8                        | 200                     | A1, A3         | MLA 2552-401 |
|                       |                                          | 17             | ±0.50                   | 0.024                                 | 5.0                    | 1.8                        | 320                     | A1, A3         | MLA 2552-402 |
|                       |                                          | 27             | ±0.50                   | 0.036                                 | 4.0                    | 1.8                        | 420                     | B1, B3         | MLA 2552-403 |
|                       |                                          | 37             | ±0.50                   | 0.050                                 | 3.0                    | 1.8                        | 500                     | B1, B3         | MLA 2552-404 |
|                       | +29                                      | 7              | ±0.50                   | 0.012                                 | 7.0                    | 1.8                        | 400                     | A1, A3         | MLA 2552-501 |
|                       |                                          | 16             | ±0.75                   | 0.024                                 | 6.0                    | 1.8                        | 600                     | A1, A3         | MLA 2552-502 |
|                       |                                          | 26             | ±1.00                   | 0.036                                 | 5.0                    | 1.8                        | 700                     | B1, B3         | MLA 2552-503 |
|                       |                                          | 36             | ±1.00                   | 0.050                                 | 4.0                    | 1.8                        | 800                     | B1, B3         | MLA 2552-504 |

**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  |
|-----------------------|------------------------------------------|----------------|-------------------------|---------------------------------------|------------------------|----------------------------|-------------------------|----------------|--------------|
| 6.4 - 7.2             | +12                                      | 9              | ±0.40                   | ±0.50                                 | 2.5                    | 1.8                        | 80                      | A1, A3         | MLA 2652-101 |
|                       |                                          | 18             | ±0.50                   | ±0.75                                 | 2.5                    | 1.8                        | 160                     | A1, A3         | MLA 2652-102 |
|                       |                                          | 27             | ±0.50                   | ±1.00                                 | 2.5                    | 1.8                        | 240                     | B1, B3         | MLA 2652-103 |
|                       |                                          | 36             | ±0.50                   | ±1.50                                 | 2.5                    | 1.8                        | 320                     | B1, B3         | MLA 2652-104 |
|                       | +18                                      | 8              | ±0.40                   | ±0.50                                 | 5.0                    | 1.6                        | 100                     | A1, A3         | MLA 2652-201 |
|                       |                                          | 17             | ±0.50                   | ±0.75                                 | 4.0                    | 1.6                        | 180                     | A1, A3         | MLA 2652-202 |
|                       |                                          | 26             | ±0.50                   | ±1.00                                 | 4.0                    | 1.6                        | 260                     | B1, B3         | MLA 2652-203 |
|                       |                                          | 35             | ±0.50                   | ±1.50                                 | 4.0                    | 1.6                        | 340                     | B1, B3         | MLA 2652-204 |
|                       | +21                                      | 8              | ±0.40                   | ±0.50                                 | 6.0                    | 1.6                        | 120                     | A1, A3         | MLA 2652-301 |
|                       |                                          | 17             | ±0.50                   | ±0.75                                 | 5.0                    | 1.6                        | 220                     | A1, A3         | MLA 2652-302 |
|                       |                                          | 26             | ±0.50                   | ±1.00                                 | 4.0                    | 1.6                        | 300                     | B1, B3         | MLA 2652-303 |
|                       |                                          | 35             | ±0.50                   | ±1.50                                 | 4.0                    | 1.6                        | 380                     | B1, B3         | MLA 2652-304 |
|                       | +26                                      | 7              | ±0.50                   | ±0.50                                 | 7.0                    | 1.8                        | 200                     | A1, A3         | MLA 2652-401 |
|                       |                                          | 16             | ±0.50                   | ±0.75                                 | 6.0                    | 1.8                        | 320                     | A1, A3         | MLA 2652-402 |
|                       |                                          | 25             | ±0.50                   | ±1.00                                 | 5.0                    | 1.8                        | 420                     | B1, B3         | MLA 2652-403 |
|                       |                                          | 34             | ±0.50                   | ±1.50                                 | 4.0                    | 1.8                        | 500                     | B1, B3         | MLA 2652-404 |
|                       | +29                                      | 6              | ±0.50                   | ±0.50                                 | 8.0                    | 1.8                        | 400                     | A1, A3         | MLA 2652-501 |
|                       |                                          | 15             | ±0.75                   | ±0.75                                 | 7.0                    | 1.8                        | 600                     | A1, A3         | MLA 2652-502 |
|                       |                                          | 24             | ±1.00                   | ±1.00                                 | 6.0                    | 1.8                        | 700                     | B1, B3         | MLA 2652-503 |
|                       |                                          | 32             | ±1.00                   | ±1.50                                 | 5.0                    | 1.8                        | 800                     | B1, B3         | MLA 2652-504 |

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