



## Amplifier Datasheet

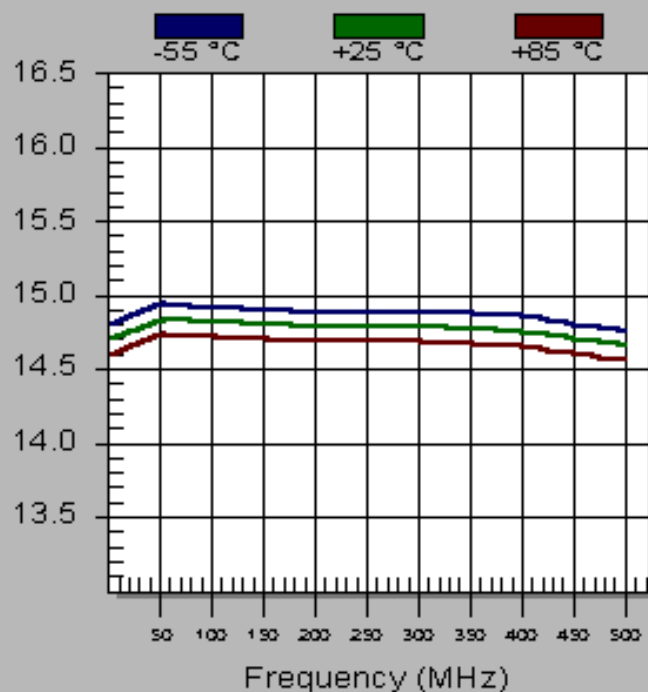
# TM6520

## Product Data Summary

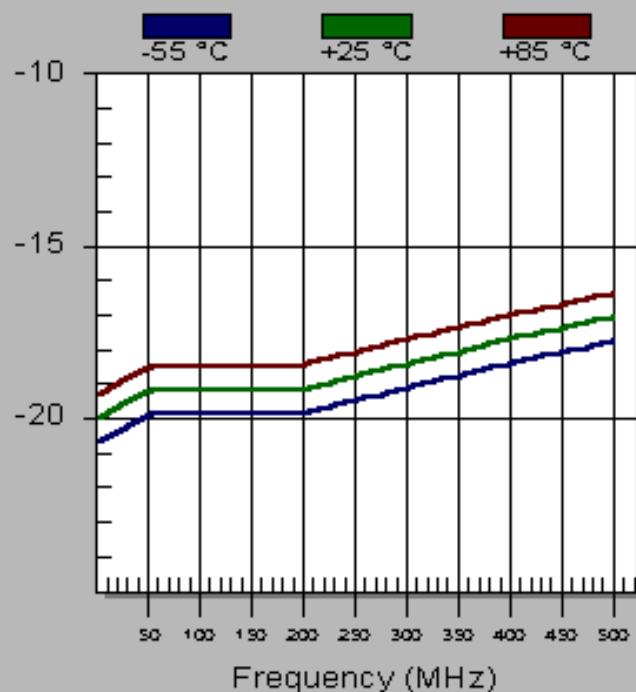
| Parameter                       | Min/Max     | Typical   |
|---------------------------------|-------------|-----------|
| Operating Frequency             | 5 - 500 MHz |           |
| Noise Figure                    | 4.5 dB      | 3.5 dB    |
| Gain                            | 13.5 dB     | 14.5 dB   |
| Power Output (1 dB Compression) | +11.5 dBm   | +13.0 dBm |
| 2nd Order Intercept             |             | +34.0 dBm |
| 3rd Order Intercept             |             | +27.0 dBm |
| Reverse Isolation               | -16.0 dB    | -17.0 dB  |
| VSWR Input                      | 2.0:1       | 1.3:1     |
| VSWR Output                     | 2.0:1       | 1.5:1     |
| DC Voltage                      |             | 5.0 V     |
| DC Current                      |             | 33.0 mA   |

## Typical Performance

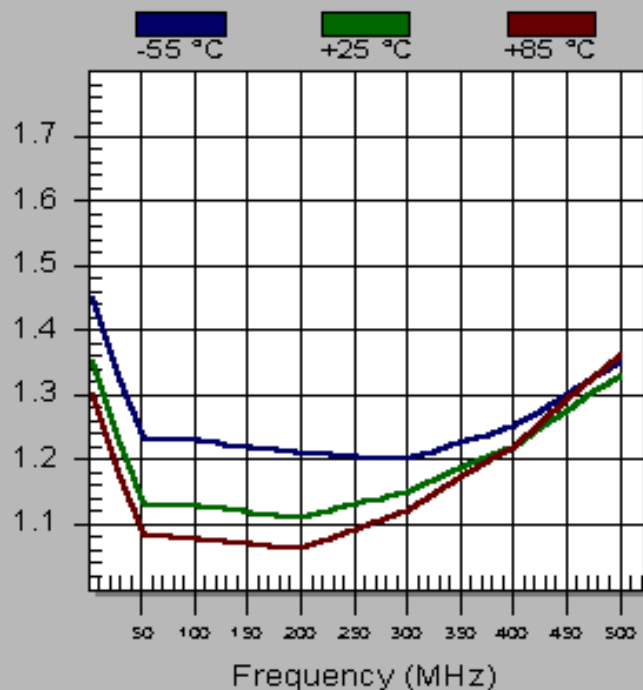
TM6520 Gain (dB)



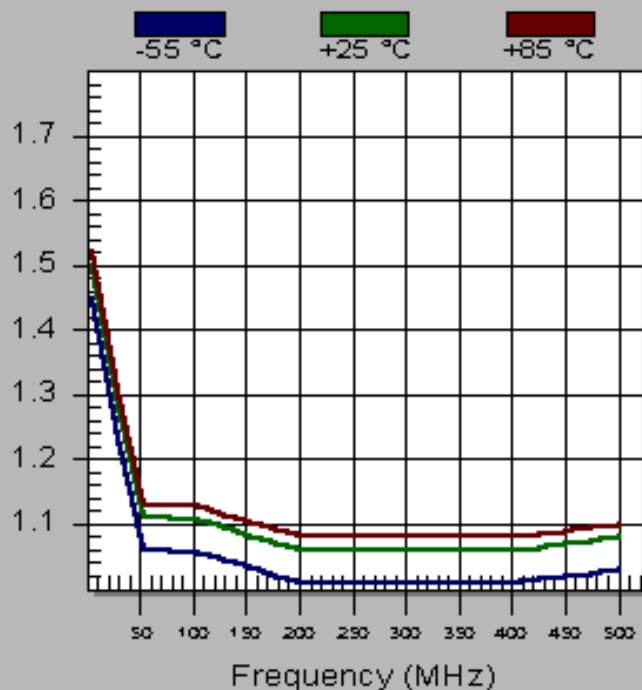
TM6520 Reverse Isolation (dB)

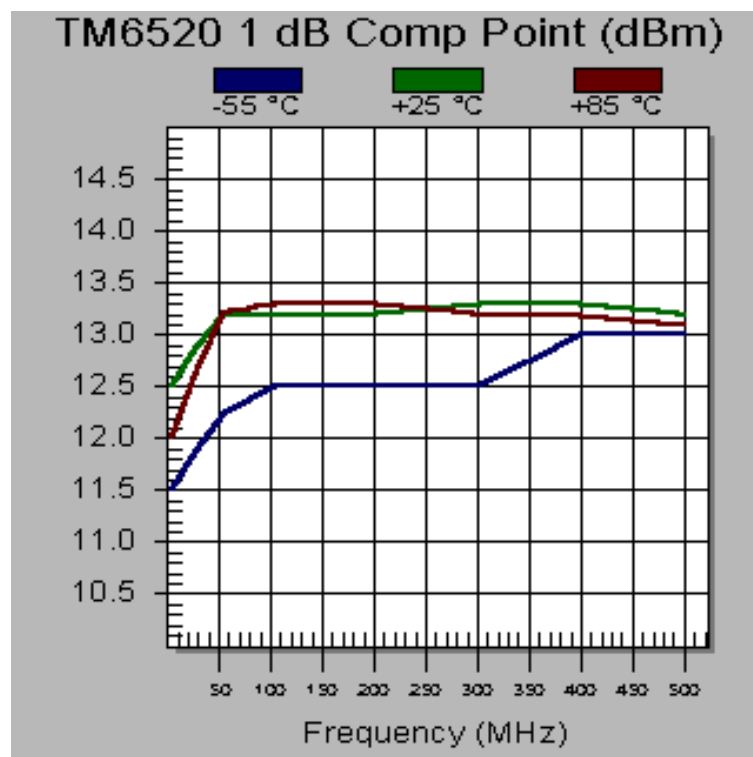
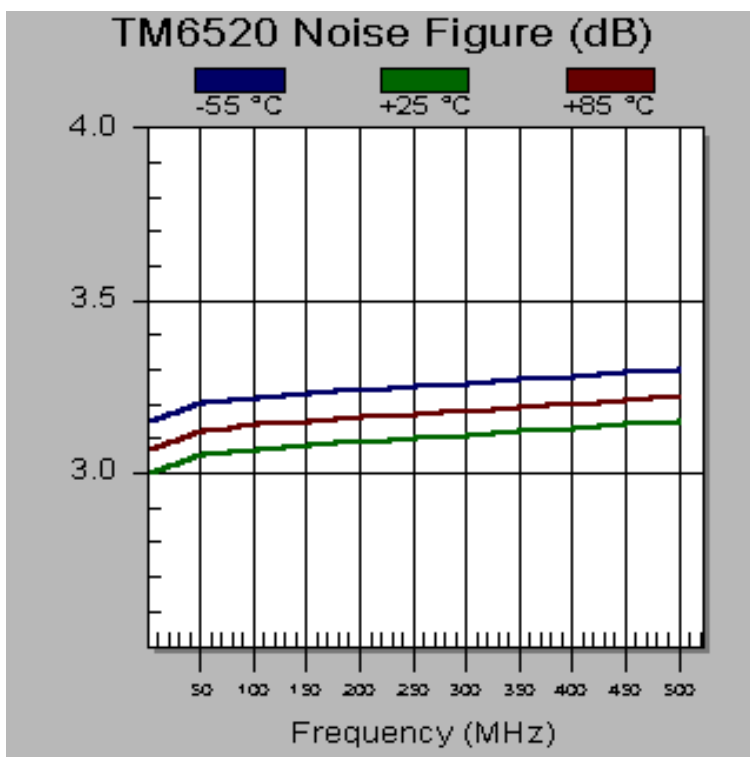


TM6520 Input VSWR



TM6520 Output VSWR





## Packaging Options

### S-Parameters

| Frequency | S11   |        | S21  |        | S12    |       | S22   |        |
|-----------|-------|--------|------|--------|--------|-------|-------|--------|
| (MHz)     | Mag   | Ang    | Mag  | Ang    | Mag    | Ang   | Mag   | Ang    |
| 5         | 0.150 | -74.0  | 5.43 | -167.0 | 0.1000 | 14.0  | 0.200 | 124.0  |
| 50        | 0.060 | -160.0 | 5.52 | 171.0  | 0.1100 | 0.0   | 0.050 | 151.0  |
| 100       | 0.060 | -162.0 | 5.51 | 161.0  | 0.1100 | -3.0  | 0.050 | 152.0  |
| 200       | 0.050 | -149.0 | 5.49 | 140.0  | 0.1100 | -8.0  | 0.030 | 158.0  |
| 300       | 0.070 | -128.0 | 5.49 | 120.0  | 0.1200 | -12.0 | 0.030 | 171.0  |
| 400       | 0.100 | -123.0 | 5.47 | 99.0   | 0.1300 | -19.0 | 0.030 | 178.0  |
| 500       | 0.140 | -130.0 | 5.41 | 78.0   | 0.1400 | -27.0 | 0.040 | -179.0 |

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