



## Amplifier Datasheet

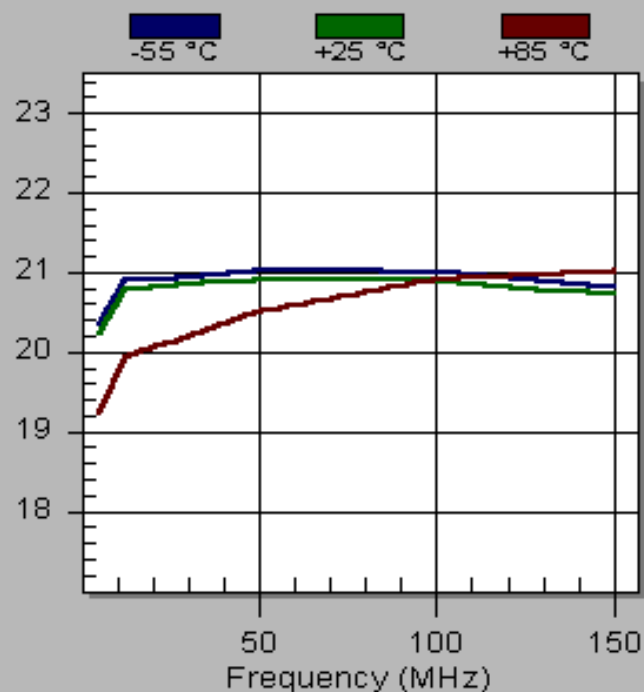
# TM5325

## Product Data Summary

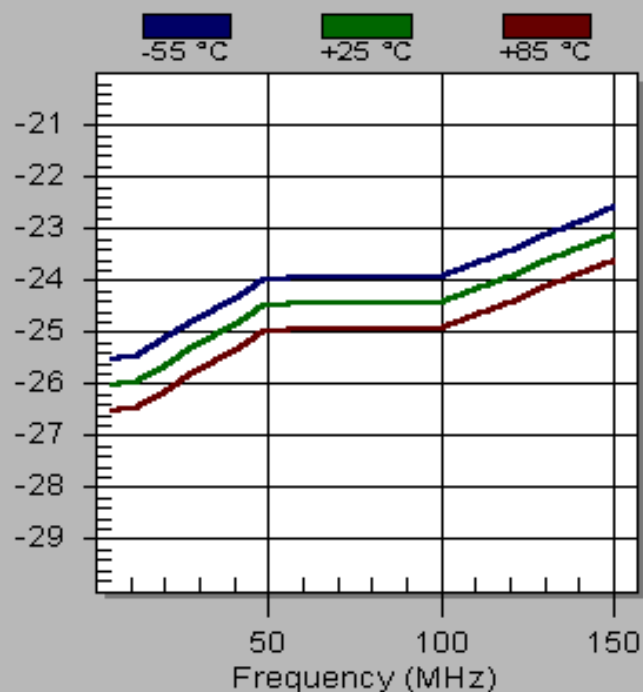
| Parameter                       | Min/Max      | Typical   |
|---------------------------------|--------------|-----------|
| Operating Frequency             | 10 - 100 MHz |           |
| Noise Figure                    | 3.0 dB       | 2.0 dB    |
| Gain                            | 19.5 dB      | 20.5 dB   |
| Power Output (1 dB Compression) | +22.5 dBm    | +24.0 dBm |
| 2nd Order Intercept             |              | +52.0 dBm |
| 3rd Order Intercept             |              | +40.0 dBm |
| Reverse Isolation               | -23.0 dB     | -24.0 dB  |
| VSWR Input                      | 2.2:1        | 1.7:1     |
| VSWR Output                     | 2.0:1        | 1.4:1     |
| DC Voltage                      |              | 12.0 V    |
| DC Current                      |              | 85.0 mA   |

## Typical Performance

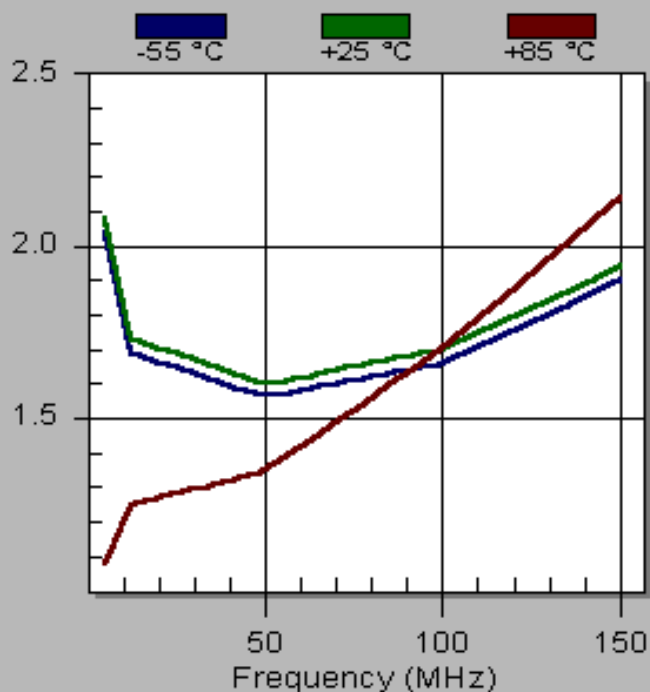
TM5325 Gain (dB)



TM5325 Reverse Isolation (dB)



TM5325 Input VSWR



## Packaging Options

### S-Parameters

| Frequency | S11   |        | S21   |        | S12    |        | S22   |       |
|-----------|-------|--------|-------|--------|--------|--------|-------|-------|
| (MHz)     | Mag   | Ang    | Mag   | Ang    | Mag    | Ang    | Mag   | Ang   |
| 5         | 0.350 | -32.0  | 10.28 | -157.0 | 0.0500 | -159.0 | 0.270 | -27.0 |
| 10        | 0.270 | -28.0  | 10.95 | -171.0 | 0.0500 | -174.0 | 0.160 | -32.0 |
| 50        | 0.230 | -36.0  | 11.12 | 162.0  | 0.0600 | 151.0  | 0.110 | -3.0  |
| 100       | 0.260 | -68.0  | 11.10 | 139.0  | 0.0600 | 127.0  | 0.100 | -10.0 |
| 150       | 0.320 | -106.0 | 10.87 | 115.0  | 0.0700 | 103.0  | 0.060 | -29.0 |

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