**FDMP20401**

2.0 TO 10.0 GHz: INPUT
4.0 TO 20.0 GHz: OUTPUT
FREQUENCY DOUBLER

**SPECIFICATIONS**

**Typical Values**

**Parameter** | **Port** | **Frequency (GHz)** | **Typ. (dB)** | **Max. (dB)**
---|---|---|---|---
SSB Conversion Loss and SSB Noise Figure | \(f_{\text{IN}}\) | 3.0 to 8.0 | 10.0 | 11.5
| \(f_{\text{OUT}}\) | 6.0 to 16.0 | 10.0 | 11.5
| | 2.0 to 10.0 | 10.5 | 12.0
| | 4.0 to 20.0 | 10.5 | 12.0

**Suppression**

| **Parameter** | **Port** | **Frequency (GHz)** | **Typ. (dB)** | **Min. (dB)**
---|---|---|---|---
Fundamental | \(f_{\text{IN}}\) | 2.0 to 10.0 | 32 | 25
Third Harmonics | \(f_{\text{IN}}\) | 2.0 to 4.0 | 50 | 40
| \(f_{\text{IN}}\) | 4.0 to 8.0 | 38 | 28
| \(f_{\text{IN}}\) | 8.0 to 10.0 | 45 | 32
Fifth Harmonics | \(f_{\text{IN}}\) | 2.0 to 10.0 | 50 | 40

* Measured in a 50-ohm system with nominal input drive of +10 dBm.

**ABSOLUTE MAXIMUM RATINGS**

| **Parameter** | **Value** |
---|---|
Storage Temperature | -65 to +125 °C |
Peak Input Power | +23 dBm @ 25 °C derate to +17 dBm @ 100 °C |
Peak Input Current @ 25°C | 50 mA DC |
The minimum recommended drive level is +4 dBm. The maximum recommended drive level is +20 dBm.