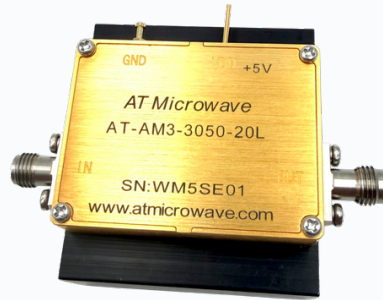


AT Microwave AT-AM3-3050-20L – Active Multiplier x3

Active Frequency Multiplier x3 · 30-50 GHz, +20 dBm · Product Datasheet



ELECTRICAL SPECIFICATIONS

Parameter	Min	Typ	Max
Input Frequency	10 GHz	–	17 GHz
Output Frequency	30 GHz	–	50 GHz
Output Power	+18 dBm	+20 dBm	–
Input Power	+0 dBm	+3 dBm	+8 dBm
Drain Current	500 mA	–	800 mA

TECHNICAL SPECIFICATIONS

- **Product Type**
Active Frequency Multiplier x3
- **Input Frequency**
10 – 17 GHz
- **Output Frequency**
30 – 50 GHz
- **Multiplication Factor**
x3
- **Output Power**
+20 dBm typ. / +18 dBm min.
- **Harmonic Suppression**
X2/X4: -20 dBc typ.
- **Drain Voltage**
+5 V to +8 V
- **Drain Current**
500 – 800 mA
- **Manufacturer**
AT Microwave
- **Input Connector**
SMA Female
- **Output Connector**
2.4 mm Female
- **Case Material**
Copper, Gold Plated
- **Weight**
80 g (without heatsink)
- **Operating Temp.**
-40 to +85 °C
- **Abs. Max Drain**
+13 V
- **Abs. Max RF Input**
+10 dBm
- **Cooling**
Heatsink required above 50 °C case temp
- **Note**
Other port configurations on request

APPLICATIONS

<p>28/39 GHz 5G Communication mmWave signal generation for 5G FR2 infrastructure and test</p>	<p>Test & Measurement High-power millimeter-wave source for lab and production setups</p>	<p>RF over Fiber (RoF) Frequency conversion stage in optical-to-RF transmission links</p>
<p>Radar Systems Local oscillator and drive source for Ka- and Q-band radar</p>	<p>mmWave Signal Sources Broadband x3 multiplication from a lower-frequency synthesizer</p>	<p>Research & Development Flexible 30-50 GHz source for experimental RF setups</p>