PRODUCT BRIEF

MM5120

12GHz High Power RF SP4T Switch

The Menlo Micro MM5120 is the world's first generally available high-power RF SP4T micromechanical switch. Menlo Micro has developed a new fabrication process and applied it to DC and wideband RF/microwave switch applications. This new innovative technology enables robust and highly reliable switches capable of greater than 25 W CW power handling at 6.0 GHz.

The MM5120 provides ultra-low insertion loss and superior linearity from 12 GHz down to DC, with greater than 3 billion switching cycles guaranteed at +85 °C. Integrated high voltage generation simplifies usage when only a single low voltage is required for operation.

The MM5120 is an ideal solution for replacing large RF electromechanical relays, as well as RF/microwave solid-state switches where linearity and insertion loss are critical parameters.

FEATURES

- · DC to 12 GHz Frequency Range
- 25 W (CW), 150 W (Pulsed) Power Handling @ 6.0 GHz
- Ultra-Low Insertion Loss, 0.35 dB
 @ 6 GHz
- IP3 > 85 dBm
- · 25 dB Isolation @ 6 GHz
- · Maximum Voltage (AC or DC):
- +/-150 V on RF Input
- High Reliability, > 3.0 Billion Switch Cycles
- · Integrated Gate Control and
- High Voltage Generator
- 4.0 mm x 4.0 mm Lead-Free RoHS Compliant BGA Package

APPLICATIONS

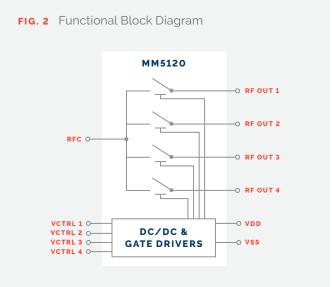
- Switched Filter Banks and Tunable Filters
- · High Power RF Front-Ends
- Low-Loss Switch Matrices
- · RF EM Relay Replacement
- Antenna Tuning
- · Antenna Beam Steering
- Digital Step Attenuators

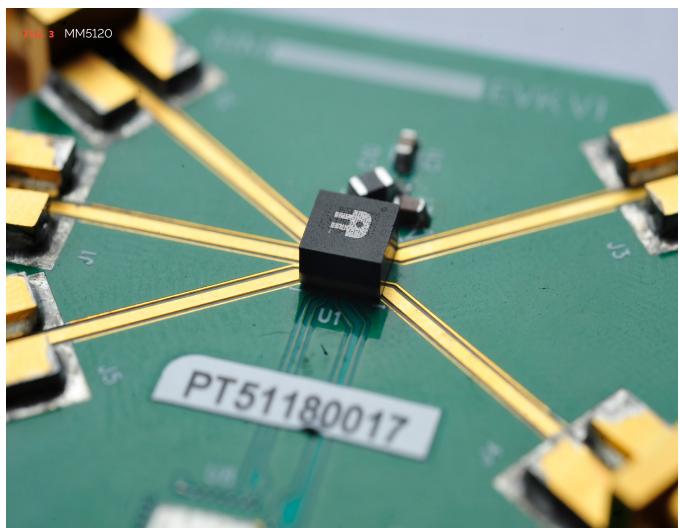
MARKETS

- · Defense and Aerospace
- Test and Measurement
- · Wireless Infrastructure











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