

MACOM®

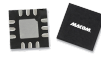
SWITCH FILTER BANK, MIXERS AND DIODES



Full product range

Switch Filter bank

- Covering 2-18 GHz
- Ease of control using SOI switches
- 3 bandpass filters with integrated bypass
- Stop band Rejection: 40dB
- Passband insertion Loss: 6dB
- P1 dB: 22.5dB
- 3.3V Supply and Control
- Miniature 7x9mm LQFN Package
- RoHS* Compliant
- Custom filter banks available



Full product range

Frequency Conversion Mixers

- These mixers are offered as single, double balanced and image reject covering narrow and wideband frequencies up to 64 GHz
- Used in both up and down frequency conversion applications
- Available in bare die, surface mount package and connectorised form factors



Full product range

Connectorised Mixers

- Offered in connectorised, flat pack, drop-in and surface mount packages with a broad range operating frequency ranges and performance specifications
- Available in subsets of the frequency range such as RF and LO: 50 kHz to 24 GHz and IF: DC to 8 GHz
- GaAs pHEMT and Silicon HMC and are available in double and triple balanced designs
- Suitable for aerospace and defence, wireless, test and measurements applications and broadband communications applications



Full product range

Step Recovery Diodes

- Silicon and GaAs Varactor Multiplier Diodes provide broadband performance ranging from 10 MHz to 70 GHz
- Ideal for multiplier circuits, available in die form, plastic and ceramic packaging
- Provide flip chip series for higher frequency mmW applications, plastic packaged series for microwave frequency surface mount applications, ceramic packaged series for high power waveguide and coaxial applications



Full product range

Pin Diodes

- Pin Limiter Diodes, Pin Switch and Attenuator Diodes available
- PIN diodes designed for applications such as switches and attenuators
- Available in various configurations, including single diodes, series fees, common cathode pairs, and more. They feature industry-standard surface mount packages like SOT-23, SOT-143, SOT-323, SOD-323, and SC-79 and are supplied on tape and reel for automated assembly



Full product range

Schottky Diodes

- Variety of Schottky Diodes optimised for different applications, including mixer, detector, and power monitoring
- Provide fast switching and low forward voltage
- MACOM produces Si Schottky diodes as well as GaAs Schottky diodes for use as signal detectors or in frequency mixers



Full product range

Varactor Diodes

- GaAs and Silicon Varactor Tuning Diodes provide broadband performance ranging from 10 MHz to 70 GHz
- Ideal for high Q filter and VCO electronic tuning circuits and are available in die form, flip chip, plastic and ceramic packaging
- These GaAs diodes boast a constant gamma series for higher frequency and high Q applications and silicon abrupt and hyper abrupt series in plastic packaging are suitable for high volume surface mount applications

[Learn more about MACOM](#)

Contact Melcom - for detailed specification, pricing & availability

