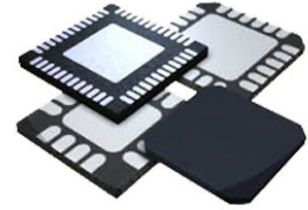



RF Switch SPDT 50MHz to 6GHz 11.8dB 16-Pin PQFN EP T/R



Images are for reference only

[Inquiry](#)

Manufacturer:	MACOM Technology Solutions
Package/Case:	QFN
Product Type:	Switches
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active

General Description

The MASW-000834-13560T is a SPDT Broadband, highlinearity, common anode, PIN diode T/R switch for 0.05 -6.0 GHz applications, including WiMAX & WiFi. The device is provided in industry standard 4mm PQFN plastic packaging. This device incorporates a PIN diode die fabricated with MACOM's patented Silicon-Glass HMIC™ process. This chip features two silicon pedestals embedded in a low loss, low dispersion glass. The diodes are formed on the top of each pedestal. The topside is fully encapsulated with silicon nitride and has an additional polymer passivation layer. These polymer protective coatings prevent damage and contamination during handling and assembly. This compact 4mm PQFN package, SPDT switch offers wideband 0.05 - 6.0 GHz performance with excellent isolation to loss ratio for both TX and RX states. The PIN diode provides 50 W typical C.W. power handling and 65dBm IIP3 at 2010 MHz for maximum switch performance.

Key Features

- Exceptional Broadband Performance, 0.05 - 6.0 GHz
- Suitable for Very High Power TD-SCDMA & WiMAX Applications
- High Tx RF Input Peak Power > 1000 W
- High TX RF Input Power = 50 W C.W. @ 2010MHz
- High Isolation: Rx = 36dB @ 3.5 GHz, 20mA / 5V
- High Isolation: Rx = 44dB @ 2010 MHz, 20mA / 5V
- Low Loss: TX = 0.38 dB @ 3.5 GHz, 5V / 20mA
- Low Loss: TX = 0.33 dB @ 2010 MHz, 5V / 20mA
- Surface Mount 4mm PQFN Package, RoHS* Compliant
- Aerospace and Defense
- Wireless Networking and Communication

Application

- Min Frequency: 50 MHz
- Max Frequency: 6,000 MHz
- Insertion Loss : 0.2 dB
- Isolation: 53 dB
- IIP3: 65 dBm
- CW Incident Power: 50 W

Recommended For You

MASW-007107-TR3000

MACOM Technology Solutions

PDFN-8

MAAD-007086-000100

MACOM Technology Solutions

SOP24

MAAD-000523-TR1000

MACOM Technology Solutions

QFN

MATI0030

MACOM Technology Solutions

SMD

MAATSS0017

MACOM Technology Solutions

SSOP16

MAAVSS0007TR

MACOM Technology Solutions

SOP-8

MATI0010

MACOM Technology Solutions

TSSOP

MAATSS0015

MACOM Technology Solutions

SOP16

MATI0020

MACOM Technology Solutions

SOP16

MASW-007921-TR3000

MACOM Technology Solutions

PDFN8

MA4SW210B-1

MACOM Technology Solutions

SMD

MA4SW410

MACOM Technology Solutions

SMD

MAAVSS0008

MACOM Technology Solutions

SOP8

MAATCC0007

MACOM Technology Solutions

SOP

MAAL-011130-TR3000

MACOM Technology Solutions

PDFN-8