
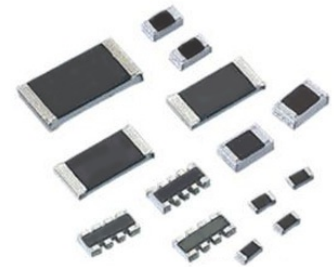


RF Switch SP4T 50MHz to 26.5GHz 28dB Die Waffle

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



Images are for reference only

[Inquiry](#)

General Description

The MA4SW410 is a SP4T, series-shunt, broadband, PIN diode switch made with MACOM's patented HMICTM (Heterolithic Microwave Integrated Circuit) process. This process allows the silicon pedestals which form the series - shunt diodes and vias to be embedded into low loss, low dispersion glass. By also incorporating small spacing between circuit elements, the result is an HMICTM chip with low insertion loss and high isolation at frequencies up to 26.5GHz. It is designed to be used as a moderate power, high performance switch and provides superior performance when compared to similar designs that use discrete components. The top side of the chip is protected by a polymer coating for manual or automatic handling and large gold bond pads help facilitate connection of low inductance ribbons. The gold metallization on the backside of the chip allows for attachment via 80/20, gold/tin solder or conductive silver epoxy. The MA4SW410 is a high performance switch suitable for use in multi-band ECM, radar, and instrumentation control circuits where high isolation to insertion loss ratios are required. With a standard $\pm 5V$, TTL controlled, PIN diode driver, 50ns switching speeds are achievable.

Key Features

- Broad Bandwidth
- 50 nS Switching Speed
- Up to +30 dBm C.W. Power Handling @ +25°C
- Glass Encapsulated Chip with Polymer Protective Coating
- Rugged Fully Monolithic
- Usable from 50 MHz to 26.5 GHz
- Specified from 50 MHz to 20 GHz
- Lower Insertion Loss and Higher Isolation than Comparable pHEMT or Discrete Component Designs
- Aerospace and Defense
- ISM

Application

- Min Frequency: 50 MHz
- Max Frequency: 26,500 MHz
- Insertion Loss : 0.7 dB
- Isolation: 48 dB
- IIP3: 40 dBm
- CW Incident Power: 2 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-000834-13560T

MACOM Technology Solutions

QFN

MASW-007921-TR3000

MACOM Technology Solutions

PDFN8

MA4SW210B-1

MACOM Technology Solutions

SMD

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MACOM Technology Solutions

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MAAL-011130-TR3000

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PDFN-8