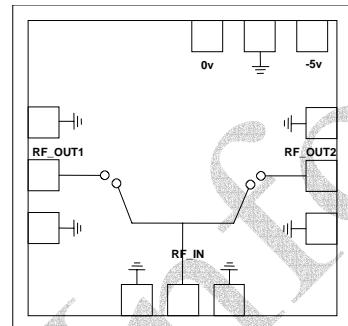


## DC – 10.0 GHz Reflective SPDT Switch

### Features

- ◆ Frequency Range: DC-10 GHz
- ◆ Insertion loss : 1.6dB(max)@10GHz
- ◆ Isolation : 35dB(min)@10GHz
- ◆ 24dBm Nominal P1dB
- ◆ Input Return Loss > 10 dB
- ◆ Output Return Loss > 10 dB
- ◆ Control Volatge : 0V/-5V
- ◆ 0.15-um InGaAs pHEMT Technology
- ◆ Chip Size : 0.63 mm x 1.13 mm x 0.1 mm

### Functional Diagram



### Typical Applications

- ◆ Cellular system
- ◆ Transmitters and Receivers modules
- ◆ Military & Space

### Description

The compression power AMT2532011 is a wideband Reflective single-pole; double throw (SPDT) MMIC Chip covering DC to 10GHz. The Switch offers high Isolation and Low Insertion Loss. The Switch features over greater than 35dB Isolation, less than 1.6dB Insertion Loss in the operating range with a input of 27dBm. The die is fabricated using a reliable Low noise 0.15um InGaAs pHEMT process.

### Electrical Specifications <sup>(1)</sup> @ T<sub>A</sub> = 25 °C, V<sub>dd</sub> = +4V, Z<sub>o</sub> = 50 Ω

Parameter	Min.	Typ.	Max.	Units
Frequency	DC	-	10.0	GHz
Insertion Loss	-	-	1.6	dB
Isolation	-35		-	dB
Input Return Loss	-	10	-	dB
Output Return Loss	-	10	-	dB
Output Power (P1dB)	-	24	-	dBm
Control Volatge	0/-5			V

#### Note:

1. The above mentioned electrical specifications are simulated results