



GW1180

GaAs MMIC SPDT Switch DC-3GHz

Ver. 1.0

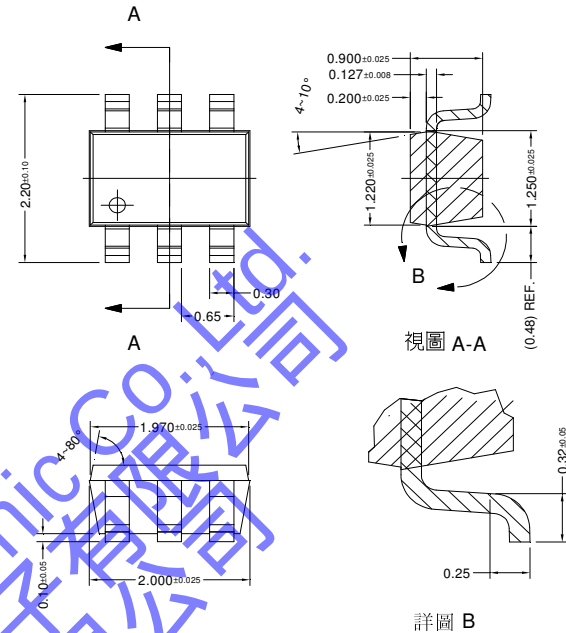
■ Features

- Low Insertion Loss: 0.4dB @ 2.5GHz
- High Isolation: 28dB @ 2.5GHz
- P_{-1dB}: +27dBm Typical @ +3V
- IIP3: 55dBm @ Input Power up to 19dBm
- Good Reliability Performance
- SOT-363 6 Lead Plastic Package
- T/R Switches in 802.11b/g/n WLAN Systems

■ General Description

The GW1180 is a GaAs MMIC SPDT switch in a SOT-363 6 lead plastic package. The GW1180 features low insertion loss and positive voltage operation with low DC power consumption. Typical applications are for the variety of analog and digital wireless communication systems.

■ SOT-363 Package Dimensions (Unit: mm)



■ Electrical Specifications at 25°C with 0, +3V Control Voltages

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Insertion Loss	Input Power +25dBm DC-2.5GHz	-	0.4	0.6	dB
Isolation	Input Power +25dBm DC-2.5GHz	24	28	-	dB
VSWR	Insertion Loss state DC-2.5GHz	-	1.2	-	-
Input Power for 1 dB compression	2.5GHz	-	27	-	dBm
Second Harmonics	f=2.5GHz, P _{in} =25dBm	-	-75	-	dBc
Third Harmonics	f=2.5GHz, P _{in} =25dBm	-	-75	-	dBc
Intermodulation Intercept Point (IIP3)	For two tones (f=2.5GHz, 2.501GHz) @ Input power +20dBm	-	55	-	dBm
Switch Time	Rise, Fall (10/90% or 90/10% RF) On, Off (50% CTL to 90/10% RF)	-	50	-	ns
Control Current	Input Power +25dBm	-	4	100	μA

Notes: All measurements made in 50Ω system, unless otherwise specified.
DC=500MHz