

GN04005

GaAs N-Channel IC

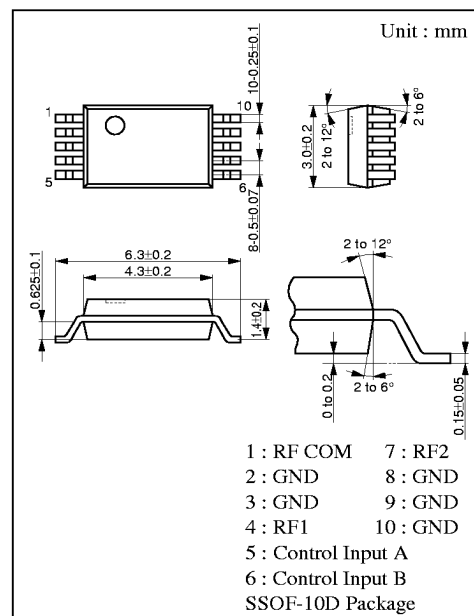
For high-frequency medium-power SPDT switch

■ Features

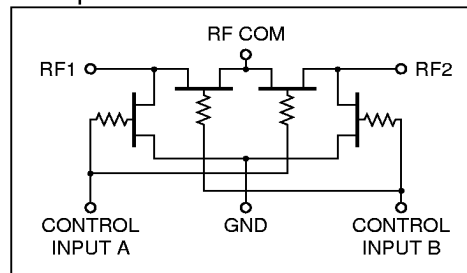
- Low insertion loss : LOSS= 0.6dB
- High isolation : ISO= 25dB
- Small package

■ Absolute Maximum Ratings (Ta= 25°C)

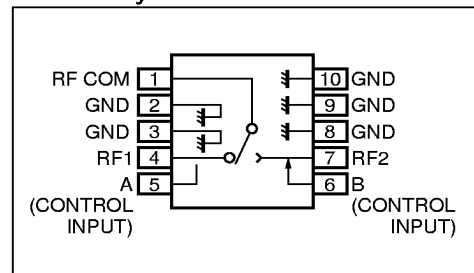
Parameter	Symbol	Rating	Unit
Max input power	P _{in}	34	dBm
Max control voltage	V _{CON}	-10	V
Channel temperature	T _{ch}	150	°C
Storage temperature	T _{stg}	-55 to +150	°C



■ Equivalent Circuit



■ Pin Layout



■ Electrical Characteristics (Ta = 25°C)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Insertion loss	LOSS	V _{CON} = -5V, f= 0.1 to 2GHz		0.6	1	dB
Isolation	ISO	V _{CON} = -5V, f= 0.1 to 2GHz	20	25		dB
VSWR	VSWR	V _{CON} = -5V, f= 0.1 to 2GHz		1.5		
1dB compression	P _{1dB}	V _{CON} = -5V, f= 0.1 to 2GHz		27		dBm
Control current	I _{CON}	V _{CON} = -5V, f= 0.1 to 2GHz		25		μA
2nd harmonics level	P2	V _{CON} = -5V, f= 0.1 to 2GHz		-55		dBc
3rd harmonics level	P3	P _{in} = 22dBm		-55		dBc

■ Truth Table (High : -5V, Low : 0V)

A	B	RFCOM-RF1	RFCOM-RF2
HIGH	LOW	ON	OFF
LOW	HIGH	OFF	ON
HIGH	HIGH	OFF	OFF

Power Handling Characteristics

