



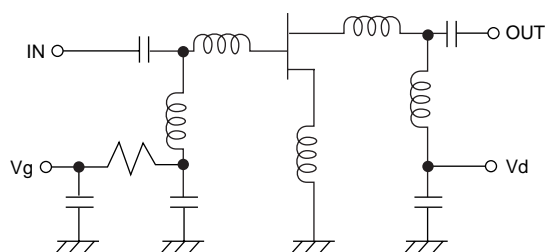
SPM2001A

GaAs MMIC For 1.9GHz PHS Transmitting Amplifier

Features and Applications

- Best suited for a driver stage of PHS transmitting amplifier.
- Power supply voltage : $\pm 3V$, high linearity.
- Plastic mold package CP6 applicable to surface mounting and automatic inserting.

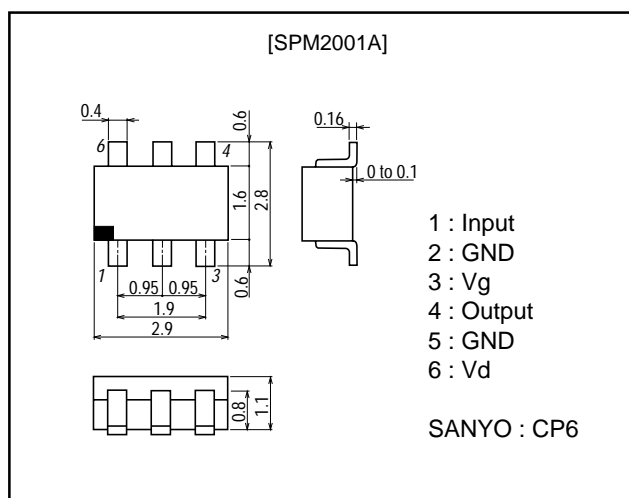
Equivalent Circuit



Package Dimensions

unit : mm

1299



Specifications

Absolute Maximum Ratings at $T_a=25^\circ C$

Parameter	Symbol	Ratings	Unit
Power Supply Voltage	V_{DD}	5.0	V
Gate Voltage	V_G	-3.0	V
Maximum Power Dissipation	P_D	0.25	W
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature	T_{stg}	-30 to +90	$^\circ C$

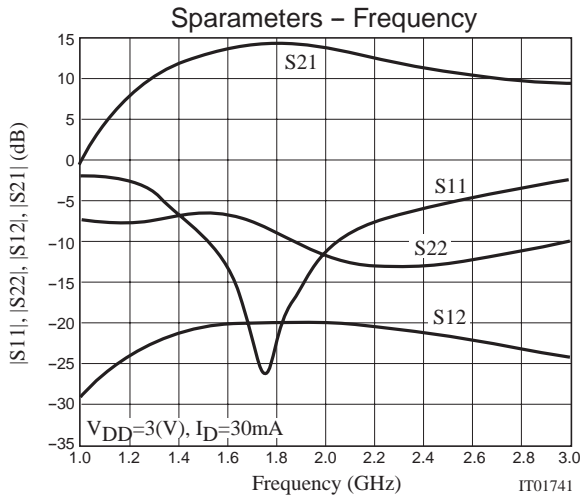
Electrical Characteristics at $T_a=25^\circ C$

Parameter	Symbol	Conditions	min	typ	max	Unit
Drain Current	I_{DSS}	$V_{DD}=3V, V_G=0V$	40	55	70	mA
Output Power at 1dB Gain Compression	P_{o1dB}	$V_{DD}=3V, I_D=30mA, f=1.9GHz$		14		dBm
Small Signal Gain	G_L	$V_{DD}=3V, I_D=30mA, f=1.9GHz$		13		dB
VSWR(input)		$V_{DD}=3V, f=1.9GHz$		2.5		-
VSWR(output)		$V_{DD}=3V, f=1.9GHz$		2.0		-

Marking : MF

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