PRELIMINARY

Features

- High power
 - Po = 35 dBm at Pin = 4 dBm
- Super low distortion
- P_{adj} = -67 dBc at Po = 34 dBm, 600 kHz offset
 High gain
- Gp = 31 dB at Pin = 4 dBm
- Input/output port matched to 50Ω
- Hermetically sealed package

RF Performance Specifications ($T_a = 25^{\circ}C$)

Characteristic	Symbol	Condition	Unit	Min.	Typ.	Max.
Output Power	Po	$V_{DD1} = V_{DD2} = V_{DD3} = 9V$ $V_{GG} = -5V, f = 1.9 \text{ GHz}$ $Pin = 4 \text{ dBm}$	dBm	34	35	-
Power Gain	Gp		dB	30	31	-
Drain Current	I _{DD} *		А	-	1.5	1.9
Adjacent Channel Leakage Power	P _{adj}	$V_{DD1} = V_{DD2} = V_{DD3} = 9V$ $V_{GG} = -5V, f = 1.9 \text{ GHz}$ $Po = 34 \text{ dBm}$ $\pi / 4-\text{QPSK Modulation}$ 600 kHz Offset	dBc	-	-67	-65

 $I_{DD} = I_{DD1} + I_{DD2} + I_{DD3}$

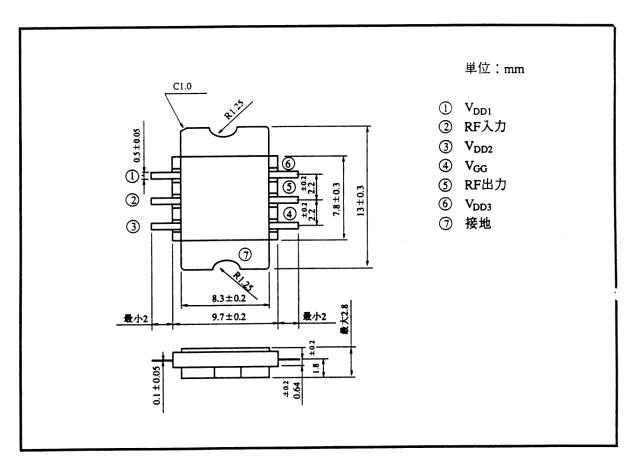
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Absolute Maximum Ratings (T_a = 25°C)

Characteristic	Symbol	Unit	Rating
Drain Supply Voltage	$V_{\text{DD1}}, V_{\text{DD2}}, V_{\text{DD3}}$	V	15
Gate Supply Voltage	V _{GG}	V	-15
Input Power	Pin	dBm	13
Flange Temperature	Tf	°C	-30 ~ +80
Storage Temperature	T _{stg}	°C	-65 ~ +175

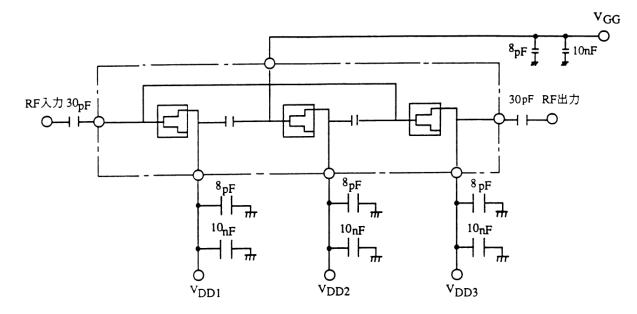
Package Outline (2-8N1B)



Handling Precautions for Packaged Type

Soldering iron should be grounded and the operating time should not exceed 10 seconds at 260°C.

MMIC Schematic



RF Performance

