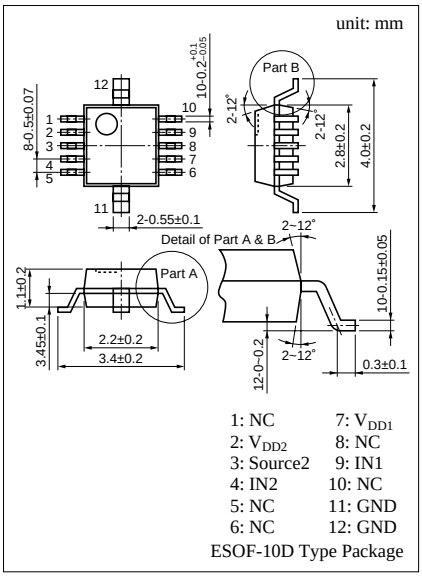
GN01081B

GaAs IC (with built-in ferroelectric)

Driver amplifier for PCS



■ Features

- High output amplifier
- Low distortion

■ Absolute Maximum Ratings (Ta = 25°C)

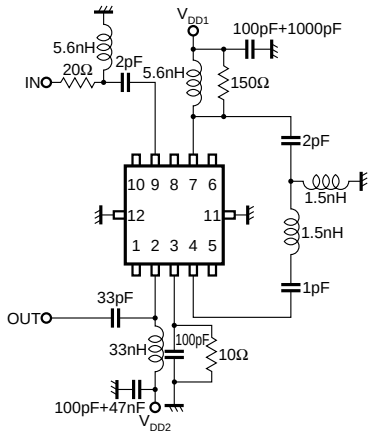
Parameter	Symbol	Ratings	Unit
Power supply voltage	V_{DD}	8	V
Circuit current	I_{DD}	100	mA
Max input power	P_{in}	−5	dBm
Allowable power dissipation	P_D	450	mW
Operating ambient temperature	T_{opr}	−30 to +90	°C
Storage temperature	T_{stg}	−40 to +120	°C

■ Electrical Characteristics (V_{DD} = 3.0V, f = 1880MHz, Pout = 11.0dBm, Ta = 25 ± 3°C)

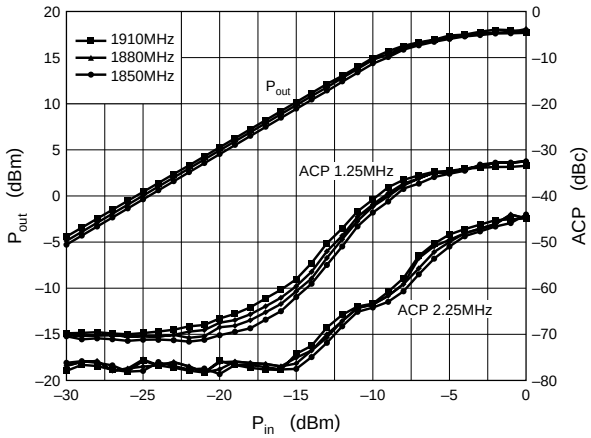
Parameter	Symbol	Test method	Conditions	min	typ	max	Unit
Circuit current	I_{DD}	(1)			60	75	mA
Power gain	PG	(1)		22	25	27	dB
Adjacent channel leakage power (ACP) 1	ACP1	(1) (2)	IS − 95 modulation, ±1.25MHz Detuning 30kHz Bandwidth		−56	−51	dBc
Adjacent channel leakage power (ACP) 2	ACP2	(1) (2)	IS − 95 modulation, ±2.25MHz Detuning 30kHz Bandwidth		−71	−66	dBc

Test method (1): Measurement circuit is shown in the following diagram.
(2): This item is the sampling guaranteed item.

■ Measurement Circuit



P_{out}, ACP — P_{in}



P_{out}, I_{DD} — P_{in}

