

FETs, IPD, IGBTs, GaAs MMICs

■ GaAs MMICs

● GaAs MMICs for Mobile Communication Use

Block	Part No.	Functions	RF Characteristics (typ.)	Applications	Package	No.
Low-Noise Amp.	GN01087B	Single-chip front end V _{DD} = 3.4 V, I _{DD} = 5.0 mA, f = 1.9 GHz	CG: 20 dB NF: 4.0 dB	PHS	Mini6-G1	D31
	GN01096B	Gain Controll LNA V _{DD} = 2.9 V, I _{DD} = 6.5 mA, f = 0.8 GHz	PG: 15 dB NF: 1.4 dB	CDMA	SMini6-G1	D22
	GN01121B	Through pass switch LNA V _{DD} = 2.9 V, I _{DD} = 10.0 mA, f = 0.8 GHz	IIP3: 7.5 dBm NF: 0.9 dB	CDMA		
	GN01154B	3-stage LNA with 2-stage Down-mixer V _{DD} = 2.8 V, I _{DD} = 8.0 mA, f = 0.8&1.5 GHz	CG: 27.5 dB NF: 1.6 dB	PDC	QFN-20JP0304-N2	D53
Mixer	GN02029B	Down-Mixer with local amplifier V _{DD} = 3.0 V, I _{DD} = 4.4 mA, f = 0.8/1.5 GHz	CG: 13 dB/12 dB OIP3: 10 dBm	PDC	SMini6-G1	D22
	GN02034B	2-Input/1-Output Mixer + Lo Amp. V _{DD} = 3.0 V, I _{DD} = 4 mA, f = 0.8 GHz	CG: 12.5 dB IIP3: 1 dBm			
	GN02037B	Down-Mixer with local amplifier V _{DD} = 3.0 V, I _{DD} = 7.5 mA, f = 0.8 GHz	CG: 10 dB IIP3: 5.3 dBm	CDMA		
	GN02039B	Down-Mixer with local amplifier V _{DD} = 3.0 V, I _{DD} = 8.0 mA, f = 0.8 GHz	CG: 10 dB IIP3: 5.8 dBm			
Driver Amp.	GN01081B	2-stage amplifier V _{DD} = 3.0 V, I _{DD} = 50.0 mA, f = 1.9 GHz	PG: 25 dB (P _{OUT} = 11 dBm)	PCS	ESOF10D-G1	D47
	GN01105B	2-stage Driver amplifier (Matching Circuit Built-in) V _{DD} = 3.0 V, I _{DD} = 25.0 mA, f = 1.5 GHz	PG: 30.5 dB	PDC	SMini6-G1	D22
	GN01106B	2-stage amplifier with AGC V _{DD} = 2.8 V, I _{DD} = 30.0 mA, f = 0.8 GHz	PG: 29 dB DR: 48 dB	CDMA		
	GN01125B	1-stage Driver amplifier [Matching Circuit Built-in (Input-side, Output-side)] V _{DD} = 3.0 V, I _{DD} = 15.0 mA, f = 0.8 GHz	PG: 18 dB	PDC		
	GN01140B	2-stage Driver amplifier with AGC V _{DD} = 2.8/3.5 V, I _{DD} = 25.0 mA, f = 0.8 GHz	PG: 34 dB DR: 46 dB			
	GN01157S	1-stage AGC V _{DD} = 2./3.58 V, I _{DD} = 35.0 mA, f = 1.5 GHz	PG: 30 dB DR: 48 dB			
	GN01165S	2-stage Driver amplifier with AGC V _{DD} = 2.8/3.5 V, I _{DD} = 33 mA, f = 1.5 GHz	PG: 24 dB DR: 47 dB			
	GN01153S	2-stage AGC V _{DD} = 2.8 V, I _{DD} = 30 mA, f = 2.0 GHz	PG: 24.5 dB (A _{CLR} = - 53 dB) DR: 47 dB	W-CDMA	ESONF10D-G1	D50
Antenna Switch	GN04017N	High power SPDT ANT-SW V _{DD} = 3.0 V, I _{DD} = 0.01 mA, f = 0.8 GHz	LOSS: 0.2 dB ISOL: 23 dB	CDMA	SMini6-G1	D22
	GN04022N	High power SPDT-SW V _{DD} = 3.0 V, I _{DD} = 0.01 mA, f = 2.0 GHz	LOSS: 0.25 dB ISOL: 23 dB	W-CDMA		
	GN04028N	High power SPDT-SW V _{DD} = 3.0 V, I _{DD} = 0.01 mA, f = 0.8 GHz		CDMA		
	GN04041N	High power SPDT-SW V _{DD} = 3.0 V, I _{DD} = 0.01 mA, f = 2.0 GHz		W-CDMA /PCS		
	GN04033N	High power SPDT-SW V _{DD} = 3.0 V, I _{DD} = 0.01 mA, f = 0.8/1.8 GHz	LOSS: 0.2 dB ISOL: 28 dB	PDC		