


SJM Prewell MMIC Application Guide for Communication Market(v60)


LNA / 低噪声放大管

Category	Part Number	Frequency	Gain	P1dB	OIP3	NF	Vcc	Vd	Id	Package
		MHz	dB	dBm	dBm	dB	V	V	mA	Type
LNA	PL08	900	20.2	17.9	32.4	0.81	3	3	45	SOT-363
		1900	14.9	17.7	35.5	0.89				
		2600	11.9	18.1	34.8	1.10				
	PL07A	900	20.2	18.0	32.8	0.69	3	3	45	DFN2*2 8L
		1900	14.6	17.3	33.0	0.86				
		2600	11.5	18.1	34.8	1.16				
	PL01S (Power S/D)	70	25.2	20.6	37.0	0.60	5	5	91	DFN2*2 8L
		1700	22.1	20.8	36.6	0.80				
		2600	20.6	20.4	37.5	1.00				
	PL03S (Power S/D)	1900	23.1	17.8	33.7	0.46	5	5	80	DFN2*2 8L
		2600	20.4	20.5	32.7	0.73				
		3500	18.9	19.4	32.0	1.00				
	PL05S (Power S/D)	1900	23.2	18.7	35.6	0.40	5	5	65	DFN2*2 8L
		3700	18.6	16.6	36.3	0.62				
		4100	17.7	15.0	34.6	0.77				

SWITCH / 射频开关

Category	Part Number	Frequency	Insertion Loss	Input Return Loss	Isolation	IIP3	IP1dB	Rising Time	Falling Time	Package
		MHz	dB	dB	dB	dBm	dBm	nSec	nSec	Type
SWITCH MMIC		1000	0.6	20.0	47.0	65.0	37.0	300	500	DFN2*2 8L
		3000	0.6	19.0	44.0	65.0	37.0			
		5000	0.9	14.0	28.0	65.0	37.0			

Mixer / 混频器

Category	Part Number	RF Freq.	IF Freq.	SSB CL	Input IP3	Input P1dB	Vcc	Vd	Id	Package
		MHz	MHz	dB	dBm	dBm	V	V	mA	Type
Mixer	PM210	150 ~ 1500	40 ~ 250	6.1	28.0	18.3	3	3	7	SOT-26
	PM483	700 ~ 800	30 ~ 300	7.7	30.7	16.6	3.3	3.3	41	MSOP8
		1100 ~ 1400		8.3	31.5	19.3				
	PM485	1700 ~ 1800	50 ~ 500	7.6	32.3	22.0	3.3	3.3	35	MSOP8
		2100 ~ 2200		8.1	32.4	20.0				
		2500 ~ 2600		11.6	33.3	22.6				
		2500 ~ 3000		6.9	31.2	16.4				
		3100 ~ 3500	50 ~ 500	7.0	33.4	21.6	3.3	3.3	60	DFN2*2 8L
		3600 ~ 4000		7.8	35.6	23.3				
		4100 ~ 4500		8.1	32.5	23.0				
		4600 ~ 5000		8.8	31.2	22.4				

Divider / Splitter / 分配器

Insertion Loss is less 3dB split.

Category	Part Number	Frequency	Insertion Loss	Isolation	Amplitude Balance	Phase Balance	Package
		MHz	dB	dB	dB	deg	Type
Divider	PD06A	300	0.96	-15.0	0.03	0.20	SOT-26
		900	0.99	-20.1	0.01	0.01	
		700	1.17	-22.0	0.04	0.55	
	PD09A	700	0.83	-18.0	0.00	0.03	SOT-26
		900	0.99	-20.1	0.01	0.01	
		1000	1.17	-14.4	0.02	0.11	
	PD18A	1500	0.06	-14.7	0.07	0.01	SOT-26
		1900	0.62	-26.2	0.04	0.05	
		2100	0.77	-20.5	0.02	0.13	
		2300	0.97	-15.9	0.01	0.56	
	PD26A	1800	0.79	-14.0	0.01	0.33	SOT-26
		2300	0.79	-22.1	0.02	0.26	
		2600	0.84	-22.1	0.01	0.43	
		3000	1.07	-16.0	0.02	0.75	
	PD35A	3000	0.54	-14.5	0.05	0.60	SOT-26
		3200	0.51	-15.5	0.07	0.50	
		3500	0.54	-33.0	0.05	0.60	
		4200	0.63	-15.0	0.08	0.90	
		5000	1.41	-11.5	0.11	1.10	
Power Splitter	PBS10A	5 ~ 500	0.40	-28.0	0.11	1.00	SMD Base
	PBS30A	500 ~ 1000	0.70	-20.0	0.09	2.40	SMD Base
		50 ~ 1500	0.50	-28.0	0.10	0.40	
		1500 ~ 3000	0.80	-13.0	0.50	4.90	

Driver / 推动放大管

Category	Part Number	Frequency	Gain	P1dB	OIP3	NF	Vcc	Vd	Id	Package
		MHz	dB	dBm	dBm	dB	V	V	mA	Type
Driver MMIC	PNH16	70	24.7	24.3	42.2	4.5	5	5	84	SOT-89
		1900	15.9	24.7	39.3	3.4				
		2600	13.5	24.3	40.1	3.7				

Contact Point / 联络处

KOREA Headquarter Office SJM프리웰㈜	KOREA : 박준성/James Park(junsp@prewell.com), 홍석민/Max Hong(sharp9945@prewell.com)									
	#406, Megavally, 268, Hagui-ro, Dongan-Gu, Anyang-City, Gyeonggi-Do, 14056 Korea 경기도 안양시 동안구 학의로 268(관양동, 메가밸리 406호) , Tel. +82 (0)31 689 5510 Fax. +82 (0)31 689 5507									

SJM Prewell MMIC Application Guide for Communication Market(v60)

Gain Block / 增益放大管

Category	Part Number	Frequency	Gain	P1dB	OIP3	NF	Vcc	Vd	Id	Package
		MHz	dB	dBm	dBm	dB	V	V	mA	Type
Gain Block MMIC [5V]	NEW PG721	70	15.4	21.3	42.7	1.6	5	5	100	SOT-89
		2140	13.7	21.4	37.7	2.6				
		3500	13.8	17.8	37.9	3.0				
		4200	14.2	16.2	37.0	3.2				
	NEW PG741	70	18.3	21.9	41.4	1.3	5	5	100	SOT-89
		2140	17.1	22.1	38.4	2.2				
		3500	16.0	20.1	38.9	2.6				
		4200	16.3	18.5	37.3	3.0				
	PG751	900	23.6	20.2	36.4	0.9	5	5	91	SOT-89
		2100	20.8	19.7	37.3	1.1				
		3500	18.7	19.5	37.1	1.2				
		4200	18.6	17.4	36.7	1.5				
	NEW PG723	70	15.4	21.3	42.7	1.6	5	5	100	DFN2*2 8L
		900	14.3	21.7	40.0	2.1				
		2140	13.7	21.4	37.7	2.6				
		4200	14.2	16.2	37.0	3.2				
	NEW PG743	70	18.3	21.9	41.4	1.3	5	5	100	DFN2*2 8L
		900	17.3	22.1	40.5	1.6				
		2140	16.2	22.1	38.4	2.2				
		4200	16.3	18.5	37.3	3.0				
	PG753	900	23.8	20.2	36.1	0.9	5	5	90	DFN2*2 8L
		2100	21.5	20.2	35.4	0.9				
		3500	19.1	19.7	35.1	1.2				
		4250	18.6	18.0	34.7	1.4				
		4750	18.2	18.8	36.7	1.6				
		5800	18.2	16.4	36.2	2.0				
	PG754S (Power S/D)	70	25.0	21.5	37.4	0.6	5	5	90	DFN2*2 8L
		2100	21.2	21.2	36.4	1.0				
		3500	19.3	20.5	37.2	1.0				
		4750	18.2	16.2	33.3	1.3				
Gain Block MMIC [3.3V]	PNW236	900	22.0	20.5	29.5	1.8	3.3	3.3	35	SOT-363
		1900	17.5	21.2	35.0	2.0				
		2600	15.5	20.1	35.0	2.1				
	PNW255	900	19.2	20.2	28.6	2.6	3.3	3.3	37	SOT-363
		1900	14.8	20.8	30.5	2.6				
		2600	12.4	20.1	31.5	3.1				
	NEW PNW311	70	15.5	18.2	34.8	1.6	3.3	3.3	58	SOT-363
		900	14.6	18.2	34.2	2.0				
		2140	14.2	17.8	32.1	2.4				
		3500	13.6	16.9	29.8	2.9				
		5000	14.1	13.3	25.4	4.4				
	NEW PNW331	70	18.5	19.0	34.4	1.6	3.3	3.3	58	SOT-363
		900	17.2	19.2	35.0	2.0				
		2140	16.3	18.9	33.7	2.4				
		3500	16.1	17.3	33.1	2.9				
		5000	16.1	15.4	30.1	4.4				
	PNW351	900	23.5	14.0	31.5	3.2	3.3	3.3	47	SOT-363
		1900	21.5	14.8	32.5	3.3				
		3700	19.5	13.2	26.5	3.9				
	PNW353	600	22.1	19.2	32.9	1.1	3.3	3.3	63	SOT-363
		900	21.2	18.9	35.4	1.0				
		1900	19.7	18.3	33.9	1.1				
		4200	17.2	14.8	34.1	2.1				
	PNW355	800	23.2	17.8	32.0	0.8	3.3	3.3	52	SOT-363
		2100	19.9	17.4	32.7	1.0				
		4800	18.0	14.4	26.9	1.6				

IF Gain Block / 中频放大管

Category	Part Number	Frequency	Gain	P1dB	OIP3	NF	Vcc	Vd	Id	Package
		MHz	dB	dBm	dBm	dB	V	V	mA	Type
IF MMIC (3.3V)	PNW511	70	28.2	14.6	31.4	2.5	3.3	3.3	50	SOT-363
		250	27.5	14.3	31.1	2.4				
	PNW534	75	20.5	14.3	34.3	3.6	3.3	3.3	61	SOT-363
		300	20.4	14.5	32.6	3.7				
	PNW566	70	21.3	19.2	36.5	2.1	3	3	85	SOT-363
		250	21.0	18.6	36.5	2.0				

Contact Point / 联络处

KOREA Headquarter Office SJM프리웰㈜	KOREA : 박준성/James Park(junsp@prewell.com), 홍석민/Max Hong(sharp9945@prewell.com)
	#406, Megavally, 268, Hagui-ro, Dongan-Gu, Anyang-City, Gyeonggi-Do, 14056 Korea 경기도 안양시 동안구 학의로 268(관양동, 메가밸리 406호) , Tel. +82 (0)31 689 5510 Fax. +82 (0)31 689 5507