

BeRex Cross Reference Guide

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	Company	BeRex	W.J			Sirenza			Prewell		
	Part Number	BG13B	AM1	AG602-89	WJA-1010	WJA-1015	SGA-5289	SGA-6289	SGC-6389	PW290	
Product Description	Category	Gain Block	Linear Driver	Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	
	Material	InGap/GaAs HBT	GaAs MESFET	InGap/GaAs HBT	InGap/GaAs HBT	InGap/GaAs HBT	SiGe HBT	SiGe HBT	SiGe HBT	InGap/GaAs HBT	
	Data sheet version	Finished	Finished	Finished	Finished	Finished	Finished	Finished	Finished	Finished	
	Package	SOT89	SOT89	SOT89	SOT89	SOT89	SOT89	SOT89	SOT89	SOT89	
	Matching Circuit	Internally Matched	External Matching	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	
	Vcc(V)	5	4.5	5.16	5	5	3.5	4	5	5	
	Icc(mA)	70	78	75	85	65	60	75	85	45	
Typical Performance	ESD	Class 1C	Class 1C	Class 1C	Class 1C	Class 1C	?	?	?	Class2	
	MSL	MSL1	MSL3	MSL3	MSL3	MSL3				MSL3	
	Gain	70MHz	13.3								14
		900MHz	12.9	14	14.2	14.5	14.4	13.4	13.9	16.7	13.5
		1900MHz	12.7	12.8	13.6	13.7	13.5	12.7	12.6	13.1	13.2
		2140MHz	12.3	12.2	13.5	13.6	13.5				
		2450MHz	12.2	11.5	13.2			12.5	12.2		12.6
	P1	70MHz	18.4								15.5
		900MHz	18.5	18	18.7	19	16.7	15.8	18.1	19.5	15.4
		1900MHz	18.5	18	18.4	16	14.4	14.4	17.8	18.6	15.1
		2140MHz	18.5	18	18.3	14.9	13.4				15.2
		2450MHz	18.5	18	18.3			13.6	17.1		
	OIP3(dBm)	70MHz	38								31.5
		900MHz	37	39	33.1	37.7	39.7	31.8	34.4	35.8	31.3
		1900MHz	35	39	33	29.3	30.5	28.1	32	34.6	30.3
		2140MHz	35	38	33	28	29.4				29.3
		2450MHz	35	37	33			26.3	31.2		
	S11	70MHz	-17.0								-14
		900MHz	-16.2	-10	-13	-18	-16.7	25.1	19.3	14.6	-13.0
		1900MHz	-21.2	-9	-16	-15	-14.4	29.2	18.5	12.6	-15.0
2140MHz		-25.0	-11.5	-16	-14	-13.4				-13.0	
2450MHz		-26.0	-11.8	-17			21.1	18			
S22	70MHz	-11.0								-11.0	
	900MHz	-12.2	-27	-15	-16.0	-16.0	24.1	20.6	16.2	-11.0	
	1900MHz	-10.0	-22	-14	-8.4	-8.4	18.1	13.1	11.7	-11.0	
	2140MHz	-9.5	-10.8	-14	-8.1	-8.1				-11.0	
	2450MHz	-9.0	-12	-13			16.7	12.2			
NF(dB)	70MHz	6.2								3.5	
	900MHz	6.1	2.4	4.3	5.5	5.4	4.2	3.7	3.2	3.5	
	1900MHz	6.3	2.6	4.4	6.1	6.1	3.8	4	4	3.6	
	2140MHz	6.3	2.7	4.5	6.5	6.54				3.7	
	2450MHz	6.4	2.8	4.5			5	4.6			

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	Company	BeRex	Mini-Circuits								
	Part Number	BG13B	Gali 1+	Gali 6+	Gali 49+	MAV-11BSM+	ERA 6SM+	ERA 4SM+/ERA4XSM+	MAR-2SM+	MAR-3SM+	
Product Description	Category	Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	
	Material	InGap/GaAs HBT	InGap HBT	InGap HBT	InGap HBT	InGap HBT	InGap HBT	InGap HBT	InGap HBT	InGap HBT	
	Data sheet version	Finished	Finished	Finished	Finished	Finished	Finished	Finished	Finished	Finished	
	Package	SOT89	SOT89	SOT89	SOT89	RRR137(SOT86)	WW107(SOT86)	WW107(SOT86)	WW107(SOT86)	WW107(SOT86)	
	Matching Circuit	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	
	Vcc(V)	5	3.4	5	5	5.5	5	4.6	5	5	
Typical Performance	Icc(mA)	70	40	70	65	60	70	65	25	35	
	ESD	Class 1C	Class 1B	Class 1B	Class 1B	Class 1B	Class 1B	Class 1A	Class 1B	Class 1B	
	MSL	MSL1	MSL1	MSL1	MSL1	MSL1	MSL1	MSL1	MSL1	MSL1	
	Gain	70MHz	13.3	12.7	12.2	14	12.7	12.6	14.4	12.5	12.5
		900MHz	12.9	12.5	12.2	13.7	11.3	12.5	14.2	12	12
		1900MHz	12.7	11.8	11.8	13.6		11.7	13	11	10.5
		2140MHz	12.3								
		2450MHz	12.2								
	P1	70MHz	18.4				18	17.1	17.5		
		900MHz	18.5					17.2	17.3	7	10
		1900MHz	18.5	12.2	18.2	16.4		17.1	16.1		
		2140MHz	18.5								
		2450MHz	18.5								
	OIP3(dBm)	70MHz	38				34	36.5	36.1		
		900MHz	37					35	35	22	28
		1900MHz	35	27	35.5	33.3		33	30.4		
		2140MHz	35								
		2450MHz	35								
S11	70MHz	-17.0	17.5	14	11.5	21.0	25	35	17.5	17.5	
	900MHz	-16.2	17.5	14	11.5		30	30	17.5	17.5	
	1900MHz	-21.2	17.5	14	11.5		35	21	17.5	17.5	
	2140MHz	-25.0									
	2450MHz	-26.0									
S22	70MHz	-11.0	15.5	11	14	21	35	35	17.5	17.5	
	900MHz	-12.2	15.5	11	14		21	21	17.5	17.5	
	1900MHz	-10.0	15.5	11	14		21	21	17.5	17.5	
	2140MHz	-9.5									
	2450MHz	-9.0									
NF(dB)	70MHz	6.2				4.4	4.4	4			
	900MHz	6.1					4.4	4.2	3.7	3.7	
	1900MHz	6.3	4.5	4.5	5.5		4.5	4.2			
	2140MHz	6.3									
	2450MHz	6.4									

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	Company	BeRex	Hittite		ASB	Mimix	
Product Description	Part Number	BG13B	HMC 479	HMC 636	ASW212	CMM6001	
	Category	Gain Block	Gain Block	Gain Block	Gain Block	Linear Driver	
	Material	InGap/GaAs HBT	SiGe HBT	GaAs PHEMT		GaAs MESFET	
	Data sheet version	Finished	Finished	Finished	Finished	Finished	
	Package	SOT89	SOT89	SOT89	SOT89	SOT89	
	Matching Circuit	Internally Matched	Internally Matched	Internally Matched	Internally Matched	External Matching	
Typical Performance	Vcc(V)	5	5	5	5	5	
	Icc(mA)	70	75	155	73	75	
	ESD	Class 1C	?	?		?	
	MSL	MSL1	MSL1	MSL1			
	Gain	70MHz	13.3	15			
		900MHz	12.9	15	13	13	12.5
		1900MHz	12.7	13.5	11		11.5
		2140MHz	12.3			12.5	
		2450MHz	12.2	12.5	10		10.8
	P1	70MHz	18.4	18			
		900MHz	18.5	18	22	18	20.5
		1900MHz	18.5	16			19.5
		2140MHz	18.5			18	
		2450MHz	18.5	14	23		19.5
	OIP3(dBm)	70MHz	38				
		900MHz	37	33	39	35	37
		1900MHz	35	30			37
		2140MHz	35			34	
		2450MHz	35	30	39		37
	S11	70MHz	-17.0	-12.0			
900MHz		-16.2	-12.0	-10.0	-11.0	-18	
1900MHz		-21.2	-16.0	-10.0		-11.5	
2140MHz		-25.0		-10	-11		
2450MHz		-26.0	-18	-10		-10	
S22	70MHz	-11.0					
	900MHz	-12.2	-20	-13	-16	-17	
	1900MHz	-10.0	-22	-13		-16	
	2140MHz	-9.5		-15	-14		
	2450MHz	-9.0		-15		-15	
NF(dB)	70MHz	6.2					
	900MHz	6.1	4	2.5	5	2.7	
	1900MHz	6.3	4	2.5		2.8	
	2140MHz	6.3		2	5.5		
	2450MHz	6.4		2		2.9	