

BeRex Cross Reference Guide

株式会社ネットウエル

	Company		W.J					Prewell	
	Part Number	BeRex	AG402-89	AG602-89	WJA-1015	WJA-1035	PW370	PW470	
Product Description	Category	Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	
	Material	InGap/GaAs HBT	InGap/GaAs HBT	InGap/GaAs HBT	InGap/GaAs HBT	InGap/GaAs HBT	InGap HBT	InGap HBT	
	Data sheet version	Finished	Finished	Finished	Finished	Finished	Finished	Finished	
	Package	SOT89	SOT89	SOT89	SOT89	SOT89	SOT89	SOT89	
	Matching Circuit	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	
Typical Performance	Vcc(V)	5	4.91	5.16	5	5	4.84	5	
	Icc(mA)	73	60	75	65	65	58	69	
	ESD	Class 1C	Class 1C	Class 1C	Class 1C	Class 1C	Class 2	Class 2	
	MSL	MSL1	MSL3	MSL3	MSL3	MSL3	MSL3	MSL3	
	Gain	70MHz	17.7					15	16.2
		900MHz	15.5	15.3	14.2	14.4	14.2	14.8	16
		1900MHz	15.1	14.5	13.6	13.5	14	14.3	15.5
		2140MHz	14.7	14.4	13.5	13.5	14		
		2450MHz	14.3	14.2	13.2			14	14.9
	P1	70MHz	18.1					17.5	19.4
		900MHz	19.1	17.1	18.7	16.7	17.6	17.7	19.2
		1900MHz	18.9	16	18.4	14.4	16.1	16.6	18.4
		2140MHz	18.7	15.2	18.3	13.4	15.5		
		2450MHz	17.8	14.6	18.3				17.7
	OIP3(dBm)	70MHz	36					33.5	35.7
		900MHz	36	31.7	33.1	39.7	35.6	32.5	35
		1900MHz	32.5	28.7	33	30.5	34.6	31	32.8
		2140MHz	31.5	27.9	33	29.4	34.5		
		2450MHz	30.5	26.8	33			30.2	31.5
	S11	70MHz	-17.0					-22	-28
		900MHz	-13.5	-12	-13	-16.7	-17.0	-19	-18
		1900MHz	-13.1	-11	-16	-14.4	-19.0	-14	-18
		2140MHz	-13.0	-13	-16	-13.4	-19.0		
		2450MHz	-13.1	-15	-17			-13	-13
	S22	70MHz	-7.8					-20	-16
		900MHz	-19.9	-19	-15	-16.0	-19.0	-23	-19
		1900MHz	-15.6	-13	-14	-8.4	-10.0	-12	-14
		2140MHz	-15.2	-13	-14	-8.1	-10.0		
2450MHz		-15.2	-13	-13			-10	-11	
NF(dB)	70MHz	4.2					3.5	3.5	
	900MHz	4.2	3.8	4.3	5.4	5.7	3.6	3.5	
	1900MHz	4.2	4	4.4	6.1	6.2	3.8	3.7	
	2140MHz	4.2	4	4.5	6.54	6.8			
	2450MHz	4.4	4.1	4.5			3.9	3.8	

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株式会社ネットウエル

Product Description	Company		BeRex	Mini Circuits						
	Part Number		BG18A	Gali 2+	Gali 4+	Gali 4F+	Gali 29+	ERA 2+/ERA 2SM+	ERA 4SM+/ERA4XSM+	
	Category		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	
	Data sheet version		Finished	Finished	Finished	Finished	Finished	Finished	Finished	
	Package		SOT89	SOT89	SOT89	SOT89	SOT89	WW107(SOT86)	WW107(SOT86)	
Matching Circuit		Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched		
Typical Performance	Vcc(V)		5	3.5	4.6	4.4	3.6	3.4	4.6	
	Icc(mA)		73	40	65	50	40	40	65	
	ESD		Class 1C	Class 1B	Class 1B	Class 1B	Class 1B	Class 1A	Class 1A	
	MSL		MSL1	MSL1	MSL1	MSL1	MSL1	MSL1	MSL1	
	Gain	70MHz		17.7	16.2	14.4	14.3	15.4	16.4	14.4
		900MHz		15.5	15.8	14.1	14	15.1	15.8	14.2
		1900MHz		15.1	14.8	13.5	13.4	14.7	14.9	13
		2140MHz		14.7						
		2450MHz		14.3						
	P1	70MHz		18.1					13.1	17.5
		900MHz		19.1		17.5	15.3			17.3
		1900MHz		18.9	12.9			11.2	13	16.1
		2140MHz		18.7						
		2450MHz		17.8					11	
	OIP3(dBm)	70MHz		36					29	36.1
		900MHz		36		34	34			35
		1900MHz		32.5	27			24.7	29	30.4
		2140MHz		31.5						
		2450MHz		30.5					25	
	S11	70MHz		-17.0	12.5	21	21	14	30	35
		900MHz		-13.5	12.5	21	21	14		30
		1900MHz		-13.1	12.5	21	21	14		21
		2140MHz		-13.0						
		2450MHz		-13.1					25	
	S22	70MHz		-7.8	12.5	15.5	14	14	25	35
		900MHz		-19.9	12.5	15.5	14	14		21
		1900MHz		-15.6	12.5	15.5	14	14		21
		2140MHz		-15.2						
2450MHz		-15.2					16			
NF(dB)	70MHz		4.2					3.2	4	
	900MHz		4.2		4	4			4.2	
	1900MHz		4.2	4.6			6	3.3	4.2	
	2140MHz		4.2							
	2450MHz		4.4							

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株式会社ネットウエル

Product Description	Company		BeRex	Sirenza			Hittite		
	Part Number		BG18A	SBF-4089	SBB-4089	SGA-5389	HMC 311	HMC 479	
	Category		Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	
	Material		InGap/GaAs HBT	SiGe HBT	SiGe HBT	SiGe HBT	SiGe HBT	SiGe HBT	
	Data sheet version		Finished	Finished	Finished	Finished	Finished	Finished	
	Package		SOT89	SOT89	SOT89	SOT89	SOT89	SOT89	
	Matching Circuit		Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	
Typical Performance	Vcc(V)		5	5	5	3.6	5	5	
	Icc(mA)		73	80	80	60	75	75	
	ESD		Class 1C	?	Class 1C	?	?	?	
	MSL		MSL1		MSL1		MSL1	MSL1	
	Gain	70MHz		17.7				16	15
		900MHz		15.5	15	15.6	16.4		15
		1900MHz		15.1	14.6	15.5	15.4	15	13.5
		2140MHz		14.7					
		2450MHz		14.3	14.3	15.5	14.9		12.5
	P1	70MHz		18.1				15.5	18
		900MHz		19.1	19	19.1	16.3		18
		1900MHz		18.9	19	19.2	15	15.5	16
		2140MHz		18.7				15	
		2450MHz		17.8	18.3	18.6	14.1		14
	OIP3(dBm)	70MHz		36				31.5	
		900MHz		36	36.5	39.3	31.5	30	33
		1900MHz		32.5	33.5	35.2	28.1	27	30
		2140MHz		31.5					
		2450MHz		30.5	32.7	32.8	26.6		30
	S11	70MHz		-17.0				8	-12.0
		900MHz		-13.5	-29.0	-29.9	-22.2		-12.0
		1900MHz		-13.1	-21.0	-19.4	-27.6	8	-16.0
		2140MHz		-13.0				7	
2450MHz		-13.1	-17.5	-17.6	-21.7		-18		
S22	70MHz		-7.8				8		
	900MHz		-19.9	-21.0	-26.4	-23.4		-20	
	1900MHz		-15.6	-15.0	-17.2	-15.9	8	-22	
	2140MHz		-15.2				7		
	2450MHz		-15.2	-13.3	-14.7	-14.4			
NF(dB)	70MHz		4.2				4.5		
	900MHz		4.2	4.2	4.3	3.3	4.5	4	
	1900MHz		4.2	4.8	4.6	2.8	4.5	4	
	2140MHz		4.2				4.5		
	2450MHz		4.4		4.5	4.1			