

BeRex Cross Reference Guide

株式会社ネットウエル

Product Description	Company	BeRex	W.J		Sirenza	Prewell			
	Part Number	BG17A	AG603-89	WJA-1020	WJA-1001	SBB-3089	PW450	PW550	
Category	Gain Block	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 HBT	InGap HBT	InGap HBT	InGap HBT	
Data sheet version	Finished	Finished	Finished	Finished	Finished	Finished	Finished	Finished	
Package	SOT89	SOT89	SOT89	SOT89	SOT89	SOT89	SOT89	SOT89	
Matching Circuit	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	
Vcc(V)	5	5.16	5	5	4.2	5	5.35		
Icc(mA)	65	75	75	100	42	75	85		
ESD	Class 1C	Class 1C	Class 1C	Class 1C	Class 1C	Class 2	Class 2		
MSL	MSL1	MSL3	MSL3	MSL3	MSL1	MSL3	MSL3		
Typical Performance	Gain	70MHz	21			17	18.4	19	
		900MHz	18.8	18.5	18.5	18.5	16.8	18	18.2
		1900MHz	17	16.5	16.8	16.7	16.7	17	17.2
		2140MHz	16.8	16	16.4	16.4	16.7		
		2450MHz	16.2	15.5			16.7	16.2	16.2
	P1	70MHz	18.3				15.6	19	20
		900MHz	19.2	19.3	18.8	19.7	15.4	18.5	20
		1900MHz	19.2	18.7	17	19.2	15.2	17.8	19
		2140MHz	19	18.6	16.3	18.1	15.1		
		2450MHz	18	18.6			15.3	17.3	18
	OIP3(dBm)	70MHz	37				29.8	36	38
		900MHz	35	33.2	35.6	44	29.7	35.5	37.5
		1900MHz	33	33	33.2	34	29.8	32.5	34.5
		2140MHz	32.5	33	32.6	34	29.3		
		2450MHz	31	32.8			29.4	31.5	33.1
	S11	70MHz					-21.5	-18	-24
		900MHz	-25.0	-18	-17.0	-18.0	-26.0	-17.0	-21
		1900MHz	-21.0	-24	-20.0	-30.0	-22.5	-30.0	-14
		2140MHz	-17.0	-21	-18.0	-26.0	-21.5		
		2450MHz	-13.0	-22			-21.0	-26.0	-16
S22	70MHz					-20.5	-13.0	-20	
	900MHz	-19.0	-14	-14.0	-15.0	-26.0	-25.0	-35	
	1900MHz	-11.0	-11	-8.9	-11.0	-30.0	-12.0	-11	
	2140MHz	-10.0	-11	-9.2	-12.0	-31.0			
	2450MHz	-9.0	-10			-31.0	-10.0	-9	
NF(dB)	70MHz	4.7				3.7	3.4	3.4	
	900MHz	4.8	3.9	5.4	5.4	3.9	3.7	3.5	
	1900MHz	4.9	4.1	6.2	6.1	3.9	3.8	3.7	
	2140MHz	4.9	4.1	6.8	6.4	3.9			
	2450MHz	4.9	4.2			3.9	3.8	3.8	

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Product Description	Company	BeRex	Mini-Circuits		Hittite			
	Part Number	BG17A	Finished	Finished	HMC 480	HMC 481	HMC 482	
Product Description	Category	Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	
	Material	InGap/GaAs HBT	InGap HBT	InGap HBT	InGap HBT	SiGe HBT	SiGe HBT	
	Data sheet version	Finished	SOT89	WW107(SOT86)	Finished	Finished	Finished	
	Package	SOT89	Internally Matched	Internally Matched	SOT89	SOT89	SOT89	
	Matching Circuit	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	
	Vcc(V)	5	4.3	4.3	5	5	5	
Icc(mA)	65	40	40	82	79	110		
ESD	Class 1C	Class 1B	Class 1B	?	?	?		
MSL	MSL1	MSL1	MSL1	MSL1	MSL1	MSL1		
Typical Performance	Gain	70MHz	21	19.3	19.3			
		900MHz	18.8	18.7	18.7	19	20	19
		1900MHz	17	17.5	17.5	17	17.5	17
		2140MHz	16.8					
		2450MHz	16.2			15	15	14.5
	P1	70MHz	18.3		14.3			
		900MHz	19.2		16.6	20	19	22.5
		1900MHz	19.2	13.4	13.5	18.5	18	20
		2140MHz	19					
		2450MHz	18			17.5	16	17.5
	OIP3(dBm)	70MHz	37		29.5			
		900MHz	35		30	34	33	36
		1900MHz	33	28	30.3	33	32	35
		2140MHz	32.5					
		2450MHz	31			32	30	32
	S11	70MHz		12.5	35.0			
		900MHz	-25.0	12.5	25.0	-17	-12	-15.0
		1900MHz	-21.0	12.5	26.0	-10	-15	-18.0
		2140MHz	-17.0					
		2450MHz	-13.0			-10		
	S22	70MHz		21.0	35.0			
		900MHz	-19.0	21.0	22.0	-17	-17	-20
		1900MHz	-11.0	21.0	20.0	-10	-27	-14
		2140MHz	-10.0					
2450MHz		-9.0			-10		-14	
NF(dB)	70MHz	4.7	3.9	3.2				
	900MHz	4.8	3.9	3.3	3.25	3.5	4	
	1900MHz	4.9	3.9	3.3		3.5	4	
	2140MHz	4.9						
	2450MHz	4.9					5	