

BeRex Cross Reference Guide

株式会社ネットウエル

Product Description	Company		BeRex	WJ	Prewell					
	Part Number		BG20B	AG-403	PW210	PW410	PW510	PW113	PW119	
	Category		IF AMP	Gain Block	Gain Block	Gain Block	IF Gain Block	IF Gain Block	IF Gain Block	
	Material		InGap/GaAs HBT	InGap/GaAs 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	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	4.74	4.96	5.4	4.7	4.66	
	Icc(mA)		105	60	46	70	85	88	115	
	ESD		Class 1C				Class 2	Class 2	Class 2	
	MSL		MSL1				MSL3	MSL3	MSL3	
	Gain	70MHz		21.9	22.1	21.4	21.5	21.5	22	22.1
		140MHz		21.9		21.4	21.5	21.5	22	22
		250MHz		21.7		21.2	21.3	21.3	22	21.8
		500MHz		21	21.8	21.1	21.1	21.1	21.5	21.5
		800MHz							20.7	
	P1	70MHz		21	17.9	16.3	19.6	20	20	20.5
		140MHz		21		16.5	19.8	20	20	20.5
		250MHz		21		16.1	19.6	20	20	20.4
		500MHz		21	17.9	16	19.5	20	20	20.1
		800MHz							19.6	
	OIP3(dBm)	70MHz		41	32.8	30	35	38.5	39	42
		140MHz		39.5		30.1	35	38.5	39	40.5
		250MHz		38.5		30.2	35	37.5	38.5	39
		500MHz		36	32.3	29	34	37	36.5	36
		800MHz							34	
	S11	70MHz		-23.5	-18.0	-24	-20	-27	-18	-20
		140MHz		-26.5		-25	-21	-35	-20	-25
		250MHz		-27.0		-17	-21	-30	-20	-20
		500MHz		-25.5	-14.0	-17	-20	-35	-21	-15
		800MHz							-22	
	S22	70MHz		-18.0	-25.0	-24	-28	-18	-12	-20
		140MHz		-21.5		-28	-55	-19	-13	-20
		250MHz		-20.0		-27	-24	-18	-13	-15
		500MHz		-16.0	-24.0	-25	-19	-15	-12	-11
		800MHz							-11	
	NF(dB)	70MHz		4.6	2.9	2.8	3.1	3.4	3.6	2.9
		140MHz		4.7		2.8	3.1	3.4	3.7	2.9
		250MHz		4.7		2.9	3.2	3.4	3.6	2.9
500MHz		4.8	2.9	2.9	3.2	3.4	3.6	2.9		
800MHz							3.6			

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Product Description	Company	BeRex	Sirenza		Hittite			
	Part Number	BG20B	SBB-5089	SGA-6489	HMC580	HMC 475	HMC 478	
	Category	IF AMP	Gain Block	Gain Block	IF Gain Block	Gain Block	Gain Block	
	Material	InGap/GaAs HBT	InGap/GaAs HBT	SiGe HBT	InGap HBT	InGap 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	5.1	5	5	5	
	Icc(mA)	105	75	75	88	110	62	
	ESD	Class 1C			?	?	?	
	MSL	MSL1			MSL1	MSL1	MSL1	
	Gain	70MHz	21.9		21	22	21.5	22
		140MHz	21.9			22		
		250MHz	21.7			21		
		500MHz	21	20.8	20.8	21		
		800MHz				17		
	P1	70MHz	21		20.6	22	22	18
		140MHz	21			21		
		250MHz	21			20.5		
		500MHz	21	20.5	20.9	19		
		800MHz				19		
	OIP3(dBm)	70MHz	41		35	35	35	30
		140MHz	39.5			35		
		250MHz	38.5			28		
		500MHz	36	38.6	34.5	28		
		800MHz				19		
	S11	70MHz	-23.5		-29.4	-35	-11.0	-15.0
		140MHz	-26.5			-35		
		250MHz	-27.0			-28		
		500MHz	-25.5	-27.2	-30.8	-19		
		800MHz				-19		
	S22	70MHz	-18.0		-18.7	-12	-13.0	-13.0
		140MHz	-21.5			-12		
		250MHz	-20.0			-12		
		500MHz	-16.0	-31.8	-16.3	-11		
800MHz					-11			
NF(dB)	70MHz	4.6		3.2	2.8	3.5	3	
	140MHz	4.7			2.8			
	250MHz	4.7			2.8			
	500MHz	4.8	3.8	2.8	2.8			
	800MHz				2.8			