

BeRex Cross Reference Guide

株式会社ネットウエル

Product Description	Company		BeRex		WJ			Sirenza			
	Part Number		BIF1		AH3	WJA1510	WJA1515	SBF-4089	SBB-1089	SGA-6389	
	Category		IF AMP		IF AMP	IF AMP	IF AMP	IF AMP	IF AMP	Gain Block	
	Material		InGap/GaAs HBT		GaAsMESFET	InGap HBT	InGap HBT	InGap/GaAs HBT	InGap/GaAs HBT	SiGe 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		5	5	5	4.9	5	4.9	
	Icc(mA)		105		150	95	70	90	90	80	
	ESD		Class 1C		Class 1B	Class 1C	Class 1C	Class 1C	Class 1C	?	
	MSL		MSL1		MSL3	MSL3	MSL3	MSL1	MSL1		
	Gain	70MHz		15.2		12.7	15.4	15.1	14.9	15.5	17.7
		140MHz		15.2							
		250MHz		15.1					14.9	15.5	
		500MHz		15		12.3	14.1	14.1	14.7	15.5	15.6
		800MHz		14.7		11.7			14.3	15.5	15.5
	P1	70MHz		20		20	19.6	18.9	20.1	19	20.1
		140MHz		20.8							
		250MHz		20.9					20.1	19	
		500MHz		21		20	19.8	18.9	20.1	19	20.4
		800MHz		20.7		20			18.1	18	20.2
	OIP3(dBm)	70MHz		44		36	40.4	36.8	40	42	36.6
		140MHz		42							
		250MHz		40.5					42.5	43	
		500MHz		40		40	40.8	38.5	40	40	36
		800MHz		37.5		41			35	35	35.2
	S11	70MHz		-18.0		-8.4	-9.5	-9.5	-18.0	-16.0	-22.3
		140MHz		-18.0							
		250MHz		-18.0					-22.0	-19.0	
		500MHz		-18.0		-15.2	-13.0	-13.0	-21.0	-18.0	-27.5
		800MHz		-19.0		-14.0			-19.0	-15.0	-27.4
	S22	70MHz		-16.0		-16.7	-22.0	-21.0	-15.0	-20.0	-14.7
		140MHz		-17.0							
		250MHz		-16.0					-17.0	-21.0	
		500MHz		-15.0		-16.5	-17.0	-18.0	-21.0	-23.0	-14.5
		800MHz		-13.0		-15.0			-18.0	-17.0	14.8
	NF(dB)	70MHz		4.2		5.0	5.2	4.9	3.2	3.3	4
		140MHz		4.3							
		250MHz		4.3					3.3	3.1	
500MHz		4.4		3.3	5.6	5.2	3.3	3.2	3.7		
800MHz		4.5		3.1			3.3	3.4	3.8		

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Product Description	Company	BeRex	Prewell		ASB	Mini Circuits	Hittite	
	Part Number	BIF1	PW350	PW117	ASW311	MAV-11BSM+	HMC 479	
	Category	IF AMP	Gain Block	Gain Block	IF AMP	Gain Block	Gain Block	
	Material	InGap/GaAs HBT	InGap HBT	InGap HBT		InGap HBT	SiGe HBT	
	Data sheet version	Finished	Finished	Finished	Finished	Finished	Finished	
	Package	SOT89	SOT89	SOT89	SOT89	RRR137(SOT86)	SOT89	
	Matching Circuit	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	
Typical Performance	Vcc(V)	5	4.84	4.7	5	5.5	5	
	Icc(mA)	105	58	105	120	60	75	
	ESD	Class 1C	Class 2	Class 2		Class 1B	?	
	MSL	MSL1	MSL3	MSL3		MSL1	MSL1	
	Gain	70MHz	15.2	16.9	16		12.7	15
		140MHz	15.2	16.8	16	14.5	11.3	
		250MHz	15.1		15.9			
		500MHz	15	16.6	15.7			
		800MHz	14.7		15.5			
	P1	70MHz	20	18.5	19.5		18	18
		140MHz	20.8	18.3	19.5	21		
		250MHz	20.9		19.5			
		500MHz	21	18	19.7			
		800MHz	20.7		19.3			
	OIP3(dBm)	70MHz	44	33.5	42.5		34	33
		140MHz	42	33.5	41.7	40		
		250MHz	40.5		41			
		500MHz	40	32.3	38.5			
		800MHz	37.5		36			
	S11	70MHz	-18.0	-19	-16		21	-12.0
		140MHz	-18.0	-19	-17	-12		
		250MHz	-18.0		-17			
		500MHz	-18.0	-17	-18			
		800MHz	-19.0		-18			
	S22	70MHz	-16.0	-13	-15		21	-20
		140MHz	-17.0	-14	-16	-13		
		250MHz	-16.0		-16			
		500MHz	-15.0	-13	-15			
800MHz		-13.0		-13				
NF(dB)	70MHz	4.2	3.2	4.1		4.4	4	
	140MHz	4.3	3.2	4.1	3.2			
	250MHz	4.3		4.2				
	500MHz	4.4	3.2	4.2				
	800MHz	4.5		4.2				