

BeRex Cross Reference Guide

株式会社ネットウエル

Product Description	Company	BeRex		WJ			Sirenza				
	Part Number	BIF3	ECG055B	AH31	WJA1500	WJA1505	WJA-1001	SBA-5089	SBF-5089	SBB-2089	
	Category	IF AMP	Gain Block	IF AMP	IF AMP	IF AMP	Gain Block	IF AMP	IF AMP	IF AMP	
	Material	InGap/GaAs HBT	InGap HBT	MESFET	InGap HBT	InGap HBT	InGap/GaAs HBT	InGap/GaAs HBT	InGap/GaAs 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	Internally Matched	Externally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched		
Typical Performance	Vcc(V)	5	4.8	5	5	5	5	4.9	4.9	5	
	Icc(mA)	80	65	150	95	65	100	80	90	90	
	ESD	Class 1C	Class 1A	Class 1B	Class 1C	Class 1C	Class 1C	?	Class 1C	Class 1C	
	MSL	MSL1	MSL3	MSL3	MSL3	MSL3	MSL3		MSL1	MSL1	
	Gain	70MHz	20.3	20.7	19.5	19.8	19.5		20.5	20.5	20
		140MHz	20.2								
		250MHz	19.9		19.3			19.6		20.1	20
		500MHz	19	20.6	18.4	18.8	18.6	19.2	20.2	19.5	20
		800MHz	17.6							18.2	20
	P1	70MHz	23.5	18.2	22	20.2	19.2		19.8	21	20
		140MHz	24.5								
		250MHz	24.5		22			20.4		21	20
		500MHz	24.2	18	21	20.4	18.9	20.3	19.8	20.8	20
		800MHz	24							18.6	19
	OIP3(dBm)	70MHz	44	33	42	44.4	36.5		36.3	39	40
		140MHz	41.5								
		250MHz	40.5		42			39.7		41	42
		500MHz	40.5	33.5	41	38.3	37.7	39	35.8	39	40
		800MHz	39.5							34	35
	S11	70MHz	-19.0	-36.0	-21.0	-12.0	-13.0		-29.0	-19.4	-18.0
		140MHz	-18.0								
		250MHz	-15.0		-19.0			-13.0		-20.1	-20.0
		500MHz	-11.0	-31.0	-13.0	-17.0	-18.0	-15.0	-27.0	-22.0	-19.0
800MHz		-8.0							-26.8	-16.0	
S22	70MHz	-16.0	-27.0	-17.0	-21.0	-19.0		-27.0	-17.2	-23.0	
	140MHz	-17.0									
	250MHz	-16.0		-13.0			-15.0		-18.6	-27.0	
	500MHz	-13.0	-23.0	-9.2	-15.0	-15.0	-20.0	-21.0	-22.3	-30.0	
	800MHz	-11.0							-22.4	-14.0	
NF(dB)	70MHz	5.1	3.4	2.6	4.9	4.6		4.1	2.7	2.9	
	140MHz	5.2									
	250MHz	5.2		2.2			4.8		2.7	2.6	
	500MHz	5.3	3.6	1.9	5.2	4.9	5.0	4.3	2.8	2.8	
	800MHz	5.3							2.8	2.9	

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Product Description	Company	BeRex	Prewell			ASB	Hittite	Mimix	
	Part Number	BIF3	PS401	PW250	PW350	ASW335	HMC580	CMM6003	
	Category	IF AMP	Gain Block	Gain Block	Gain Block	IF amp	IF Gain Block	Linear Driver	
	Material	InGap/GaAs HBT	InGap HBT	InGap HBT	InGap HBT		InGap HBT	GaAs MESFET	
	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	Externally Matched	Internally Matched	External Matching		
Typical Performance	Vcc(V)	5	3.7	4.78	5.35	5	5	5	
	Icc(mA)	80	60	46	85	100	88	150	
	ESD	Class 1C	Class 2	Class 2	Class 2		?	?	
	MSL	MSL1	MSL3	MSL3	MSL3		MSL1		
	Gain	70MHz	20.3	19.7	19	19	18.8	22	
		140MHz	20.2	19.7	18.9	19		22	17.5
		250MHz	19.9				18.5	21	
		500MHz	19	19.3	18.6	18.7		21	17.2
		800MHz	17.6					17	16.3
	P1	70MHz	23.5	16.3	16.5	20		22	
		140MHz	24.5	16.3	16.7	20	22	21	23
		250MHz	24.5					20.5	
		500MHz	24.2	16.2	16.3	20	22.5	19	23.6
		800MHz	24					19	23.8
	OIP3(dBm)	70MHz	44	34.2	30.5	38		35	
		140MHz	41.5	35.2	30.5	38.5	44	35	40
		250MHz	40.5					28	
		500MHz	40.5	32.2	29.5	37	43	28	39
		800MHz	39.5					19	37
	S11	70MHz	-19.0	-15.0	-17.0	-24		-35	
		140MHz	-18.0	-15.0	-18.0	-27	-13.5	-35	-12
		250MHz	-15.0					-28	
		500MHz	-11.0	-14.0	-17.0	-29	-13.5	-19	-12
		800MHz	-8.0					-19	-11
S22	70MHz	-16.0	-13.0	-12.0	-20		-12		
	140MHz	-17.0	-13.0	-13.0	-22	-18	-12	-16	
	250MHz	-16.0					-12		
	500MHz	-13.0	-12.0	-12.0	-18	-15	-11	-16	
	800MHz	-11.0					-11	-13	
NF(dB)	70MHz	5.1	2.3	3.3	3.4		2.8		
	140MHz	5.2	2.3	3.3	3.4	1.6	2.8	3.5	
	250MHz	5.2					2.8		
	500MHz	5.3	2.5	3.4	3.4	1.8	2.8	1.6	
	800MHz	5.3					2.8	2	