

BeRex Cross Reference Guide

株式会社ネットウエル

	Company	BeRex	W.J				Sirenza			
	Part Number	BT09AG	AH1	AH114	AH118	AH128	EC1089	SXA-289	SXB-2089	
<b>Product Description</b>	Category	HIGH OIP3	Linearity amp	Linearity amp	Linearity amp	Linearity amp	Linearity amp	Medium Power	Medium Power	
	Material	InGap/GaAs HBT	IaAs HBT	InGap HBT	InGap HBT	InGap HBT	GaAs HBT	GaAs HBT	InGap/GaAs HBT	
	Data sheet version	Finished	Finished	Finished	Finished	Finished	Finished	Finished	Finished	
	Package	SOT89	SOT89	SOT89	SOT89	SOT89	SOT89	SOT89	SOT89	
	Matching Circuit	External Matching	External Matching	External Matching	External Matching	External Matching	External Matching	External Matching	External Matching	
<b>Typical Performance</b>	Vcc(V)	5	5	5	5	5	5	5	5.2	
	Icc(mA)	160	150	150	160	115	160	105	135	
	ESD	Class 1B	Class 1B	Class 1A	Class 1A	Class 2	Class 1A	Class 1C	Class 1C	
	MSL	MSL1	MSL3	MSL3	MSL3	MSL3	MSL3	MSL1	MSL1	
	<b>Gain</b>	70MHz	24.7							
		900MHz	20	14.2	19	20.4	19.5	15.5	20	23
		1900MHz	14.5	12.2	14.5	16.5	17.2	12.2	15	17
		2140MHz	13	12	14	16.3	16.6	11.5		17
		2450MHz	12.5	11						
	<b>P1</b>	70MHz	24.5							
		900MHz	24.5	21.7	24	24.2	24.6	24	24	24
		1900MHz	24.2	22	23	24.7	24.8	23.5	24	24.5
		2140MHz		22	23	24.7	24.6	23.5		24.5
		2450MHz	26	22						
	<b>OIP3(dBm)</b>	70MHz	39							
		900MHz	43	42	40	40	40	40	40.5	41
		1900MHz	43	41	41	40.5	40.8	41	41.5	43
		2140MHz		40	40	40.5	41.5	40		43
		2450MHz	43	40						
	<b>S11</b>	70MHz								
		900MHz	-17.0	-21	-14	-15	14	-14	-25	-17
		1900MHz	-22.0	-14	-10	-12	14	-15		-13
		2140MHz		-21	-25	-15	13	-15		-18
		2450MHz	-16.0	-25						
	<b>S22</b>	70MHz								
900MHz		-14.0	-14	-10	-12	7.8	-10	-7		
1900MHz		-16.0	-13	-14	-20	11	-10			
2140MHz			-11	-20	-16	10	-10			
2450MHz		-24.0	-14							
<b>NF(dB)</b>	70MHz	3.7								
	900MHz	4.2	3.2	5	4	4.6	5.1	5	4.5	
	1900MHz	4.5	3.3	5	4.3	4.5	5.9	5.7	4.7	
	2140MHz		3.3	6	4.8	4.4	5.4		4.2	
	2450MHz	5	3.7							

BeRex Cross Reference Guide

株式会社ネットウエル

	Company	BeRex	Prewell	Analog Devices	Hittite	Mimix	
<b>Product Description</b>	Part Number	BT09AG	PH430	ADL5320	HMC 454	CMM6004	
	Category	HIGH OIP3	Linearity amp	Pre-drive RF amp	Medium Power	Linear Driver	
	Material	InGap/GaAs HBT	InGap HBT	GaAs HBT	InGap HBT	GaAs MESFET	
	Data sheet version	Finished	Finished	Finished	Finished	Finished	
	Package	SOT89	SOT89	SOT89	SOT89	SOT89	
	Matching Circuit	External Matching	External Matching	External Matching	External Matching	External Matching	
<b>Typical Performance</b>	Vcc(V)	5	5	5	5	5	
	Icc(mA)	160	155	104	150	150	
	ESD	Class 1B	Class 1C	?	?	?	
	MSL	MSL1	MSL3		MSL1		
	Gain	70MHz	24.7				
		900MHz	20		17.9	17.8	16.5
		1900MHz	14.5	17.5		12.5	14.5
		2140MHz	13	16.8	13.7	12.5	
		2450MHz	12.5		12.6		13.6
	P1	70MHz	24.5				
		900MHz	24.5		25.8	24.5	23.8
		1900MHz	24.2	24.5		27	23.5
		2140MHz		25	25.6		
		2450MHz	26		26.1	27.5	23
	OIP3(dBm)	70MHz	39				
		900MHz	43		47.8	40	41.5
		1900MHz	43	42		41	41
		2140MHz		42	42	42	
		2450MHz	43		42.8		41
	S11	70MHz					
		900MHz	-17.0		-10.0	-9.0	-18
		1900MHz	-22.0	-13		-7.0	-15
		2140MHz		-18.0	-10.0	-12	
		2450MHz	-16.0		-10.0		-15
	S22	70MHz					
		900MHz	-14.0		-10.0	-13	-14
1900MHz		-16.0	-15		-21	-10	
2140MHz			-18.0	-10.0	-19		
2450MHz		-24.0		-10.0		-12	
NF(dB)	70MHz	3.7					
	900MHz	4.2		3.8	8	1.8	
	1900MHz	4.5	3.1		6.5	2.2	
	2140MHz		3.1	4.2	5.2		
	2450MHz	5		4.6		2.3	

March 2010\_Rev.1