

BeRex Cross Reference Guide

株式会社ネットウエル

	Company	BeRex	W.J					Sirenza		
	Part Number	BT05CV	AH114	ECG015	SCG015	AH128	AH1	SXA-289	SXB-2089	
Product Description	Category	HIGH OIP3	Linearity amp	Linearity amp	Linearity amp	Linearity amp	Linearity amp	Medium Power	Medium Power	
	Material	InGap/GaAs HBT	InGap 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	
Typical Performance	Vcc(V)	5	5	5	5	5	5	5	5.2	
	Icc(mA)	85	150	100	100	115	150	105	135	
	ESD	Class 1B	Class 1A	Class 1B	Class 1A	Class 2	Class 1B	Class 1A	Class 2	
	MSL	MSL1	MSL3	MSL3	MSL3	MSL3	MSL3	MSL1	MSL1	
	Gain	70MHz	22.9							
		900MHz	21.5	19			19.5	14.2	20	23
		1900MHz	17	14.5	16.5	16.5	17.2	12.2	15	17
		2140MHz	16.5	14	15	15	16.6	12		17
		2450MHz	15		14.5	14.5		11		
	P1	70MHz								
		900MHz	23.9	24			24.6	21.7	24	24
		1900MHz	23.6	23	24	24	24.8	22	24	24.5
		2140MHz		23	24	24	24.6	22		24.5
		2450MHz	24.1		23	23		22		
	OIP3(dBm)	70MHz								
		900MHz	43.5	40			40	42	40.5	41
		1900MHz	42	41	41	40	40.8	41	41.5	43
		2140MHz		40	41	40	41.5	40		43
		2450MHz	40.5		41	40		40		
	S11	70MHz								
		900MHz	-18.0	-14			14	-21	-25	-17
		1900MHz	-15.0	-10	-9	-16	14	-14		-13
		2140MHz		-25	-20	20	13	-21		-18
		2450MHz	-17.0		-12	-12		-25		
	S22	70MHz								
900MHz		-15.0	-10			7.8	-14	-7		
1900MHz		-40.0	-14	-9.5	-11	11	-13			
2140MHz			-20	-10	-10	10	-11			
2450MHz		-15.0		-9	-9		-14			
NF(dB)	70MHz									
	900MHz	4.4	5			4.6	3.2	5	4.5	
	1900MHz	4.2	5	5	5	4.5	3.3	5.7	4.7	
	2140MHz		6	5	5	4.4	3.3		4.2	
	2450MHz	4.3		5	5		3.7			

March 2010_Rev.1

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Product Description	Company	BeRex	Prewell			Analog Devices	Mimix	
	Part Number	BT05CV	PH230	PH330	PH430	ADL5320	CMM6004	
	Category	HIGH OIP3	Linearity amp	Linearity amp	Linearity amp	Pre-drive RF amp	Linear Driver	
	Material	InGap/GaAs HBT	InGap HBT	InGap HBT	InGap HBT	GaAs HBT	GaAs MESFET	
	Data sheet version	Finished	Finished	Finished	Finished	Finished	Finished	
	Package	SOT89	SOT89	SOT89	SOT89	SOT89	SOT89	
	Matching Circuit	External Matching	External Matching	External Matching	External Matching	External Matching	External Matching	
Typical Performance	Vcc(V)	5	5	5	5	5	5	
	Icc(mA)	85	82	110	155	104	150	
	ESD	Class 1B	Class 1C	Class 1C	Class 1C	?	?	
	MSL	MSL1	MSL3	MSL3	MSL3			
	Gain	70MHz	22.9					
		900MHz	21.5		18.5		17.9	16.5
		1900MHz	17	17.2	14.5	17.5		14.5
		2140MHz	16.5			16.8	13.7	
		2450MHz	15				12.6	13.6
	P1	70MHz						
		900MHz	23.9		22.5		25.8	23.8
		1900MHz	23.6	22.5	22.5	24.5		23.5
		2140MHz				25	25.6	
		2450MHz	24.1				26.1	23
	OIP3(dBm)	70MHz						
		900MHz	43.5		41		47.8	41.5
		1900MHz	42	38	41.5	42		41
		2140MHz				42	42	
		2450MHz	40.5				42.8	41
	S11	70MHz						
		900MHz	-18.0		-10		-10.0	-18
		1900MHz	-15.0	-16	-12	-13	-10.0	-15
		2140MHz				-18.0	-10.0	
		2450MHz	-17.0				-10.0	-15
S22	70MHz							
	900MHz	-15.0		-10		-10.0	-14	
	1900MHz	-40.0	-12	-12	-15	-10.0	-10	
	2140MHz				-18.0	-10.0		
	2450MHz	-15.0				-10.0	-12	
NF(dB)	70MHz							
	900MHz	4.4		3.7		3.8	1.8	
	1900MHz	4.2	3.2	3	3.1		2.2	
	2140MHz				3.1	4.2		
	2450MHz	4.3				4.6	2.3	

March 2010_Rev.1