

BeRex Cross Reference Guide

株式会社ネットウエル

Product Description	Company	BeRex	W.J			Sirenza		Prewell		Mini-Circuits		
	Part Number	BG14B	AG603-89	WJA-1005	SBB-3089	SGA-5389	PW350	PW470	Gali 51F+	Gali 51+	ERA-51SM+	
	Category	Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	
	Material	InGap/GaAs HBT	InGap/GaAs HBT	InGap/GaAs HBT	InGap HBT	SiGe HBT	InGap HBT	InGap HBT	InGap HBT	InGap HBT	InGap HBT	
	Data sheet version	Finished	Finished	Finished	Finished	Finished	Finished	Finished	Finished	Finished	Finished	
	Package	SOT89	SOT89	SOT89	SOT89	SOT89	SOT89	SOT89	SOT89	SOT89	WW107(SOT86)	
Typical Performance	Matching Circuit	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	
	Vcc(V)	5	5.16	5	4.2	3.6	4.84	5	4.4	4.5	4.5	
	Icc(mA)	75	75	65	42	60	58	69	50	65	65	
	ESD	Class 1C	Class 1C	Class 1C	Class 1C	?	Class 2	Class 2	Class 1B	Class 1B	Class 1B	
	MSL	MSL1	MSL3	MSL3	MSL1		MSL3	MSL3	MSL1	MSL1	MSL1	
	Gain	70MHz	17.5			17		16.9	16.2	18	18.1	18
		900MHz	17.2	18.5	17.4	16.8	16.4	16.7	16	17.3	17.5	17.4
		1900MHz	16.4	16.5	14.4	16.7	15.4	16.4	15.5	15.9	16.1	16.1
		2140MHz	16.1	16	14	16.7						
		2450MHz	15.8	15.5		16.7	14.9	15.9	14.9			
	P1	70MHz	19.5			15.6		18.5	19.4			18.3
		900MHz	19.5	19.3	16.7	15.4	16.3	17.6	19.2	15.9	18	18.1
		1900MHz	19.5	18.7	14	15.2	15	16.5	18.4			17.8
		2140MHz	19.5	18.6	13	15.1						
		2450MHz	19.5	18.6		15.3	14.1	15.7	17.7			
	OIP3(dBm)	70MHz	37			29.8		33.5	35.7			35.1
		900MHz	36.5	33.2	36.6	29.7	31.5	33.5	35	32	35	35.4
		1900MHz	35	33	28.7	29.8	28.1	30.5	32.8			33
		2140MHz	34.5	33	27.1	29.3						
		2450MHz	33.5	32.8		29.4	26.6	29	31.5			
	S11	70MHz	-20.0			-21.5		-18	-28	21	17.5	26.0
		900MHz	-17.5	-18	-13.0	-26.0	-22.2	-18.0	-18	21	17.5	29.0
		1900MHz	-27.5	-24	-7.7	-22.5	-27.6	-30.0	-18	21	17.5	32.0
		2140MHz	-23.0	-21	-7.3	-21.5						
		2450MHz	-19.0	-22		-21.0	-21.7	-25.0	-13			
	S22	70MHz	-13.0			-20.5		-12.0	-16	14	14	28
		900MHz	-15.0	-14	-9.9	-26.0	-23.4	-16.0	-19	14	14	24
		1900MHz	-10.5	-11	-6.8	-30.0	-15.9	-10.0	-14	14	14	21
2140MHz		-11.5	-11	-7.0	-31.0							
2450MHz		-10.0	-10		-31.0	-14.4	-9.0	-11				
NF(dB)	70MHz	5.0			3.7		3.2	3.5			3.6	
	900MHz	5.0	3.9	5.4	3.9	3.3	3.3	3.5	3.5	3.5	3.7	
	1900MHz	5.2	4.1	6.4	3.9	2.8	3.5	3.7			3.7	
	2140MHz	5.3	4.1	6.5	3.9							
	2450MHz	5.5	4.2		3.9	4.1	3.6	3.8				

BeRex Cross Reference Guide

株式会社ネットウエル

Product Description	Company		Hittite	
	Part Number	BeRex	HMC 480	HMC 482
Category	Gain Block		Gain Block	Gain Block
Material	InGap/GaAs HBT		InGap HBT	SiGe HBT
Data sheet version	Finished		Finished	Finished
Package	SOT89		SOT89	SOT89
Matching Circuit	Internally Matched		Internally Matched	Internally Matched
Vcc(V)	5		5	5
Icc(mA)	75		82	110
ESD	Class 1C			
MSL	MSL1		MSL1	MSL1
Gain	70MHz	17.5		
	900MHz	17.2	19	19
	1900MHz	16.4	17	17
	2140MHz	16.1		
	2450MHz	15.8	15	14.5
P1	70MHz	19.5		
	900MHz	19.5	20	22.5
	1900MHz	19.5	18.5	20
	2140MHz	19.5		
	2450MHz	19.5	17.5	17.5
OIP3(dBm)	70MHz	37		
	900MHz	36.5	34	36
	1900MHz	35	33	35
	2140MHz	34.5		
	2450MHz	33.5	32	32
S11	70MHz	-20.0		
	900MHz	-17.5	-17	-15.0
	1900MHz	-27.5	-10	-18.0
	2140MHz	-23.0		
	2450MHz	-19.0	-10	
S22	70MHz	-13.0		
	900MHz	-15.0	-17	-20
	1900MHz	-10.5	-10	-14
	2140MHz	-11.5		
	2450MHz	-10.0	-10	-14
NF(dB)	70MHz	5.0		
	900MHz	5.0	3.25	4
	1900MHz	5.2		4
	2140MHz	5.3		
	2450MHz	5.5		5

March 2010_Rev.1