

BeRex Cross Reference Guide

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Product Description	Company	BeRex	W.J			Sirenza					
	Part Number	BG18C	ECG001B	ECG005	ECG-055B	SGA-5589	SBB-5089	SGA-6589	SGC-6489Z	SGA-7489	
	Category	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/GaAs HBT	SiGe HBT	SiGe HBT	SiGe HBT	SiGe HBT	silicon	
	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	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched		
Vcc(V)	5	3.4	4.8	4.8	3.9	5	4.9	5	5		
Icc(mA)	73	30	65	65	60	75	80	85	115		
ESD	Class 1C	Class 1A	Class 1A	Class 1A	?	Class 1C	?	Class 1C	?		
MSL	MSL1	MSL3	MSL3	MSL3		MSL1		MSL1			
Typical Performance	Gain	70MHz	23.5								
		900MHz	22.2	22.4	22.2	20.5	23.8	20.8	25.2	22.2	21.5
		1900MHz	20.9	21.4	21.5	20.1	20.3	20.1	19.8	19.5	18.5
		2140MHz	20.6	21	21.3	20.1				19	
		2450MHz	19.9	20.7			18.9	19.8	18.2	18.3	17
	P1	70MHz	19.1								
		900MHz	20.1	12.6	18	18.1	18.2	20.4	21.5	20.6	22.4
		1900MHz	18.8	12.6	17.5	18.2	16.2	20.4	19	19.2	18.5
		2140MHz	18.3	12.6	19	17.8				19	
		2450MHz	17.3	12.8			15.1	19.8	17.8	18.4	17
	OIP3(dBm)	70MHz	35								
		900MHz	35.5	24.8	34	34	32.9	39.2	32.5	34.1	35.5
		1900MHz	32.5	26	32	32	29.2	34.9	32	32.8	33
		2140MHz	31.5	25.6	30.5	30.5				32.7	
		2450MHz	32	25.4			27.7	32.8	30.3	31.4	32.2
	S11	70MHz	-12.8								
		900MHz	-21.0	-42	-25.0	-26.3	15.7	-22.7	15.6	-19.0	-15.5
		1900MHz	-26.6	-35	-20.0	-19.7	13.7	-14.6	13.1	-18.0	-15.0
		2140MHz	-23.7	-29	-18.0	-18.5				-18.0	
		2450MHz	-21.1	-28			12.8	-12.9	12	-17.0	-13.5
S22	70MHz	-7.9									
	900MHz	-22.0	-24	-18.0	-19.1	27.1	-21.5	11.4	-19.0	-14.5	
	1900MHz	-28.9	-18	-11.0	-12.9	25.2	-13.5	9.2	-11.0	-11.0	
	2140MHz	-28.0	-17	-10.0	-12.2				-11.0		
	2450MHz	-25.7	-16			23.9	-12.0	9.4	-10.0	-10.5	
NF(dB)	70MHz	3.6									
	900MHz	3.6	3.4	3.4	3.4	3	3.8	2.5	2.1	2.8	
	1900MHz	3.7	3.4	3.3	3.4	3.4	4.1	2.9	2.4	3.3	
	2140MHz	3.7	3.4	3.8	3.4				2.4		
	2450MHz	3.9	3.4			3.6	4.1	3.3	2.5		

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Product Description	Company	BeRex	Prewell		Mini Circuits					
	Part Number	BG18C	PS404	PW210	Gali 3+	Gali 24+	Gali 39+	Gali 74+	Gali 84+	
	Category	Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	
	Material	InGap/GaAs HBT	InGap HBT	InGap HBT	InGap HBT	InGap HBT	InGap HBT	InGap HBT	InGap HBT	
	Data sheet version	Finished	Finished	Finished	Finished	Finished	Finished	Finished	Finished	
	Package	SOT89	SOT89	SOT89	SOT89	SOT89	SOT89	SOT89	SOT89	
Matching Circuit	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched		
Typical Performance	Vcc(V)	5	3.64	4.74	3.3	5.8	3.5	4.8	5.8	
	Icc(mA)	73	59	46	35	80	35	80	100	
	ESD	Class 1C	Class 2	Class 2	Class 1A	Class 1C	Class 1A	Class 1C	Class 1C	
	MSL	MSL1	MSL3	MSL3	MSL1	MSL1	MSL1	MSL1	MSL1	
	Gain	70MHz	23.5	24	21.4	22.4	25.3	20.8	25.1	25.6
		900MHz	22.2	22.4	21	21.1	22.6	21.1	21.8	22.7
		1900MHz	20.9	19.7	19	19.1	19.1	19.7	18	19.2
		2140MHz	20.6							
		2450MHz	19.9	18.2	18					
	P1	70MHz	19.1	16	16.3		19.3		19.2	21.9
		900MHz	20.1	15	16		19.2		18.3	21.5
		1900MHz	18.8	13	16	12.5	19.4	10.5		21.2
		2140MHz	18.3							
		2450MHz	17.3	11	16.3					
	OIP3(dBm)	70MHz	35	32.5	30		33.8		38	37.6
		900MHz	35.5	29.2	30		35		33	37.8
		1900MHz	32.5	24.3	30	25	36.3	22.9		38
		2140MHz	31.5							
		2450MHz	32	22.2	30					
	S11	70MHz	-12.8	-19	-22	14.0	21.6	12.5	21.0	25.8
		900MHz	-21.0	-17	-20	14.0	20.4	12.5	21.0	21.2
		1900MHz	-26.6	-17	-18	14.0	17.5	12.5	21.0	18.0
		2140MHz	-23.7							
		2450MHz	-21.1	-16	-15					
	S22	70MHz	-7.9	-16	-22	21.0	18.5	14.0	12.5	16.3
		900MHz	-22.0	-22	-27	21.0	11.5	14.0	12.5	11.0
		1900MHz	-28.9	-12	-12	21.0	9.1	14.0	12.5	8.9
2140MHz		-28.0								
2450MHz		-25.7	-10	-10						
NF(dB)	70MHz	3.6	2.1	2.8		4.2			4.2	
	900MHz	3.6	2.3	3	3.5	4.3	2.4	2.7	4.4	
	1900MHz	3.7	2.4	3.1		4.2			4.4	
	2140MHz	3.7								
	2450MHz	3.9	2.5	3.1						

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Product Description	Company	BeRex	Hittite			
	Part Number	BG18C	HMC 589	HMC 475	HMC 478	
	Category	Gain Block	Gain Block	Gain Block	Gain Block	
	Material	InGap/GaAs HBT	InGap HBT	InGap HBT	SiGe HBT	
	Data sheet version	Finished	Finished	Finished	Finished	
	Package	SOT89	SOT89	SOT89	SOT89	
	Matching Circuit	Internally Matched	Internally Matched	Internally Matched	Internally Matched	
Typical Performance	Vcc(V)	5	5	5	5	
	Icc(mA)	73	82	110	62	
	ESD	Class 1C	Class 1C	?	?	
	MSL	MSL1	MSL1	MSL1	MSL1	
	Gain	70MHz	23.5			
		900MHz	22.2	21	21.5	22
		1900MHz	20.9	19	19.5	19
		2140MHz	20.6			
		2450MHz	19.9	17	16.5	16
	P1	70MHz	19.1	21		
		900MHz	20.1	19	22	18
		1900MHz	18.8	19	21	16
		2140MHz	18.3			
		2450MHz	17.3	18	19.5	13
	OIP3(dBm)	70MHz	35	33		
		900MHz	35.5	32	35	30
		1900MHz	32.5	32	35	29
		2140MHz	31.5			
		2450MHz	32		30	28
	S11	70MHz	-12.8	-17		
		900MHz	-21.0	-17	-11.0	-15.0
		1900MHz	-26.6	-11	-14.0	-10.0
		2140MHz	-23.7			
		2450MHz	-21.1		-14	
	S22	70MHz	-7.9	-12		
		900MHz	-22.0	-12	-13.0	-13.0
		1900MHz	-28.9	-10	-10.0	-13.0
2140MHz		-28.0				
2450MHz		-25.7				
NF(dB)	70MHz	3.6				
	900MHz	3.6	4	3.5	3	
	1900MHz	3.7	4	3.5	3	
	2140MHz	3.7				
	2450MHz	3.9	4.5		4	