

BeRex Cross Reference Guide

株式会社ネットウエル

Product Description	Company	BeRex	W.J				Prewell				
	Part Number	BG18B	AG-403	AG-604	EC-1019B	ECG-002	ECG-055B	PS401	PW410	PW510	
	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 HBT	InGap/GaAs HBT	InGap/GaAs HBT	InGap HBT	InGap HBT	InGap 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	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	
Vcc(V)	5	4.91	5.16	4.7	3.9	4.8	3.7	4.96	5.4		
Icc(mA)	73	60	75	70	45	65	60	70	85		
ESD	Class 1C	Class 1C	Class 1C	Class 1A	Class 1A	Class 1A	Class 2	Class 2	Class 2		
MSL	MSL1	MSL3	MSL3	MSL3	MSL3	MSL3	MSL3	MSL3	MSL3		
Typical Performance	Gain	70MHz	22.1					19.5	21.5	21.5	
		900MHz	20.3	21.1	21.4	20.4	20	20.5	19	20.5	20.5
		1900MHz	18.5	18.9	18.2	18.5	19.5	20.1	17.8	18.5	18.5
		2140MHz	18.3	18.5	17.6	18.2	18.7	20.1			
		2450MHz	17.5	18	16.9	17.6	18.2		17	17.5	17.5
	P1	70MHz	18.9						16	19.5	20
		900MHz	19	17.7	19.4	19.4	15.5	18.1	15	19	20
		1900MHz	18.9	15.9	19	19.5	15	18.2	12	18.5	19
		2140MHz	18.6	15.3	19	19	15	17.8			
		2450MHz	17.8	14.4	18.8	18.8	15		11	18	18
	OIP3(dBm)	70MHz	35						34	35	38.5
		900MHz	34	31.1	33.4	33.6	29	34	29	35.5	38
		1900MHz	31.5	28.2	33.2	31	29	32	23.5	33	35
		2140MHz	31	27.6	32.9	31	29	30.5			
		2450MHz	30.5	26.9	32.4	30.7	29		21	32	33.5
	S11	70MHz	-13.6						-15	-20	-27
		900MHz	-15.6	-13	-20	-19.2	-17.0	-26.3	-14	-20	-24
		1900MHz	-16.5	-14	-35	-16.6	-15.0	-19.7	-15	-16	-18
		2140MHz	-16.7	-15	-25	-16.9	-15.0	-18.5			
		2450MHz	-17.0	-18	-25	-18.2	-15.0		-15	-15	-16
S22	70MHz	-8.1						-13	-25	-18	
	900MHz	-33.1	-15	-12	-15.1	-18.0	-19.1	-25	-23	-25	
	1900MHz	-20.5	-10.4	-10	-10.6	-20.0	-12.9	-13	-11	-11	
	2140MHz	-20.2	-10.6	-10	-10.2	-21.0	-12.2				
	2450MHz	-18.3	-10.9	-10	-10.2	-22.0		-10	-9	-9	
NF(dB)	70MHz	3.4						2.3	3.1	3.4	
	900MHz	3.4	3.1	3.5	2.6	3.8	3.4	2.5	3.4	3.4	
	1900MHz	3.2	3.3	3.8	2.8	3.8	3.4	2.6	3.5	3.5	
	2140MHz	3.4	3.3	3.8	2.9	3.8	3.4				
	2450MHz	3.4	3.4	3.9		3.9		2.7	3.6	3.6	

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Product Description	Company	BeRex	Sirenza				ASB			
	Part Number	BG18B	SBA-5089	SBB-5089	SGA-5489	SGA-6489	SGA-7489	ASW204	ASW214	
	Category	Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	
	Material	InGap/GaAs HBT	SiGe HBT	InGap/GaAs HBT	SiGe HBT	SiGe HBT	silicon			
	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		
Vcc(V)	5	4.9	5	3.3	5.1	5	5	5		
Icc(mA)	73	80	75	60	75	115	55	52		
ESD	Class 1C	?	Class 1C	?	?	?				
MSL	MSL1		MSL1							
Typical Performance	Gain	70MHz	22.1							
		900MHz	20.3	19.9	20.8	19.7	20.1	21.5	19.8	19.5
		1900MHz	18.5	18	20.1	17.9	17.5	18.5		
		2140MHz	18.3						18	18
		2450MHz	17.5	17.1	19.8	17.1	16.5	17		
	P1	70MHz	18.9							
		900MHz	19	19.7	20.4	16	20.7	22.4	21	16
		1900MHz	18.9	19.5	20.4	14.6	18.7	18.5		
		2140MHz	18.6						21	17
		2450MHz	17.8	18.8	19.8	13.5	17.4	17		
	OIP3(dBm)	70MHz	35							
		900MHz	34	36	39.2	30.8	34	35.5	32	30
		1900MHz	31.5	34	34.9	27.4	32	33		
		2140MHz	31						32.5	32
		2450MHz	30.5	32.7	32.8	25.7	30.1	32.2		
	S11	70MHz	-13.6							
		900MHz	-15.6	-25.0	-22.7	-20.2	-24.7	-15.5	-13	-13
		1900MHz	-16.5	-20.0	-14.6	-15.4	-14.4	-15.0		
		2140MHz	-16.7						-14	-9
		2450MHz	-17.0	-17.0	-12.9	-13.5	-12.5	-13.5		
S22	70MHz	-8.1								
	900MHz	-33.1	-17.0	-21.5	-19.1	-14.6	-14.5	-13	-11	
	1900MHz	-20.5	-11.0	-13.5	-14.0	-10.9	-11.0			
	2140MHz	-20.2						-12	-14	
	2450MHz	-18.3	-11.0	-12.0	-12.4	-10.9	-10.5			
NF(dB)	70MHz	3.4								
	900MHz	3.4	4.2	3.8	2.8	2.7	2.8	1.65	5.5	
	1900MHz	3.2	4.5	4.1	2.4	3	3.3			
	2140MHz	3.4						1.75	5.7	
	2450MHz	3.4		4.1	3.7	3.4				

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	Company	BeRex	Mini Circuits								
	Part Number	BG18B	Gali 5+	Gali 52+	Gali 55+	Gali 59+	Gali 74+	ERA-3+/ERA-3SM+	ERA-5SM+/ERA-5XSM+	MRA-6SM+	
Product Description	Category	Gain Block	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	InGap HBT	
	Data sheet version	Finished	Finished	Finished	Finished	Finished	Finished	Finished	Finished	Finished	
	Package	SOT89	SOT89	SOT89	SOT89	SOT89	SOT89	SOT89	WW107(SOT86)	WW107(SOT86)	WW107(SOT86)
	Matching Circuit	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched	Internally Matched
Typical Performance	Vcc(V)	5	4.4	4.4	4.3	4.8	4.8	3.2	4.9	3.5	
	Icc(mA)	73	65	50	50	65	80	35	65	16	
	ESD	Class 1C	Class 1B	Class 1B	Class 1B	Class 1B	Class 1B	Class 1C	Class 1A	Class 1B	Class 1C
	MSL	MSL1	MSL1	MSL1	MSL1	MSL1	MSL1	MSL1	MSL1	MSL1	MSL1
	Gain	70MHz	22.1	20.6	22.9	21.9	20.6	25.1	22.1	20.2	22
		900MHz	20.3	19.4	20.8	20.6	19.7	21.8	21	19.5	20
		1900MHz	18.5	17.5	17.8	18.5	18.3	18	18.7	17.6	17
		2140MHz	18.3								
		2450MHz	17.5								
	P1	70MHz	18.9					19.2	12.5	18.4	
		900MHz	19	18	15.5	15		18.3	12.1	18.4	3
		1900MHz	18.9				17.6		12.5	17	
		2140MHz	18.6								
		2450MHz	17.8								
	OIP3(dBm)	70MHz	35					38	27	33	
		900MHz	34	35	32	28.5	33.3	33	27	33	14.5
		1900MHz	31.5						25	30	
		2140MHz	31								
		2450MHz	30.5								
	S11	70MHz	-13.6	21.0	16.5	19.0	12.5	21.0	30.0	20.0	21.0
		900MHz	-15.6	21.0	16.5	19.0	12.5	21.0	19.0		21.0
		1900MHz	-16.5	21.0	16.5	19.0	12.5	21.0	18.0	23.0	21.0
		2140MHz	-16.7								
		2450MHz	-17.0								
	S22	70MHz	-8.1	15.5	15.5	17.5	14	12.5	21.0	30.0	17.5
		900MHz	-33.1	15.5	15.5	17.5	14	12.5	17.0		17.5
		1900MHz	-20.5	15.5	15.5	17.5	14	12.5	17.0	26.0	17.5
		2140MHz	-20.2								
2450MHz		-18.3									
NF(dB)	70MHz	3.4						2.7	3.5		
	900MHz	3.4	3.5	2.7	3.3		2.7	2.6		3	
	1900MHz	3.2				4.3		2.8	3.5		
	2140MHz	3.4									
	2450MHz	3.4									

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Product Description	Company	BeRex	Hittite						
	Part Number	BG18B	HMC580	HMC 475	HMC 478	HMC 480	HMC 481	HMC 482	
	Category	Gain Block	IF Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	Gain Block	
	Material	InGap/GaAs HBT	InGap HBT	InGap HBT	SiGe HBT	InGap HBT	SiGe HBT	SiGe HBT	
	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	Internally Matched	Internally Matched	Internally Matched	
Typical Performance	Vcc(V)	5	5	5	5	5	5	5	
	Icc(mA)	73	88	110	62	82	79	110	
	ESD	Class 1C	?	?	?	?	?	?	
	MSL	MSL1	MSL1	MSL1	MSL1	MSL1	MSL1	MSL1	
	Gain	70MHz	22.1	22					
		900MHz	20.3		21.5	22	19	20	19
		1900MHz	18.5		19.5	19	17	17.5	17
		2140MHz	18.3						
		2450MHz	17.5		16.5	16	15	15	14.5
	P1	70MHz	18.9	22					
		900MHz	19		22	18	20	19	22.5
		1900MHz	18.9		21	16	18.5	18	20
		2140MHz	18.6						
		2450MHz	17.8		19.5	13	17.5	16	17.5
	OIP3(dBm)	70MHz	35	35					
		900MHz	34		35	30	34	33	36
		1900MHz	31.5		35	29	33	32	35
		2140MHz	31						
		2450MHz	30.5		30	28	32	30	32
	S11	70MHz	-13.6	-35					
		900MHz	-15.6		-11.0	-15.0	-17	-12	-15.0
		1900MHz	-16.5		-14.0	-10.0	-10	-15	-18.0
		2140MHz	-16.7						
		2450MHz	-17.0		-14		-10		
	S22	70MHz	-8.1	-12					
		900MHz	-33.1		-13.0	-13.0	-17	-17	-20
		1900MHz	-20.5		-10.0	-13.0	-10	-27	-14
		2140MHz	-20.2						
2450MHz		-18.3				-10		-14	
NF(dB)	70MHz	3.4	2.8						
	900MHz	3.4		3.5	3	3.25	3.5	4	
	1900MHz	3.2		3.5	3		3.5	4	
	2140MHz	3.4							
	2450MHz	3.4			4			5	