

BeRex Cross Reference Guide

株式会社ネットウエル

Product Description	Company	BeRex	W.J		Sirenza		Prewell		Hittite	
	Part Number	BT301	AH215	AH225	SPA-1218Z	SHF-0289Z	PH530	PH630	HMC 452	
	Category	HIGH OIP3	Linearity amp	Linearity amp	Medium Power	Medium Power	Linearity amp	Linearity amp	Medium Power	
	Material	InGap/GaAs HBT	InGap HBT	InGap HBT	GaAs HBT	FET	InGap HBT	InGap HBT	InGap HBT	
	Data sheet version	Preliminary	Finished	Finished	Finished	Finished	Finished	Finished	Finished	
	Package	SOIC-8	SOIC-8	SOIC-8	SOIC-8	SOT89	SOIC-8	SOIC-8	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	7	5	5.5	5	
	Icc(mA)	350	450	330	310	200	260	350	510	
	ESD	Class1C	Class 1B	Class1C	Class1B	Class1B	Class 1C	Class 1C	Class1A	
	MSL		MSL3	MSL3	MSL1	?	MSL3	MSL3	MSL1	
	Gain	500MHz								20
		900MHz	18.5	18	19.9		19.2	20	19	15.5
		1900MHz	12.5	12	15.5	12.5	14.6	15.5	14.5	9.5
		2140MHz	11.5	11	14.8		13.8	14.8	13.7	9
		2450MHz	10.5					13.3	12.8	
	P1	500MHz								30
		900MHz	29.5	31	31.3		30.2	30	31.1	30.5
		1900MHz	30.3	32	31.1	29	30.2	30	30.7	31
		2140MHz	30.3	31.5	31.8		30.3	29.5	30.5	31.5
		2450MHz	30.3					29.5	30.5	
	OIP3(dBm)	500MHz								45
		900MHz	46	46	46.5		43	45	48	47
		1900MHz	50	46	49.3	48	43	45.5	48.5	48.7
		2140MHz	47	45	45		43	46	48.5	49
		2450MHz	47					44.5	48	
	S11	500MHz								16.0
		900MHz	-15.0	-13	15		-15	-16.0	-12.0	13.0
		1900MHz	-18.0	-11	18	15	-18	-15	-16	13.0
		2140MHz	-16.0	-18	15		-18	-18.0	-13.0	20
		2450MHz	-15.0					-18.0	-15.0	
	S22	500MHz								11
900MHz		-7.0	-7	7		-12	-15.0	-15.0	14	
1900MHz		-14.0	-10	8.6		-10	-15	-15	15	
2140MHz		-13.0	-8	7.5		-7	-20.0	-12.0	15	
2450MHz		-11.0					-17.0	-14.0		
NF(dB)	500MHz								7	
	900MHz		7.0			3.2	3.9	4.5	6.5	
	1900MHz		5.5		7	4.1	3.9	4.5	6.5	
	2140MHz		6.2			4	4.1	4.3	6.5	
	2450MHz						4.1	4.3		