

## HETEROJUNCTION BI-POLAR TRANSISTORS

Part Number (RF Specifications @ 2 GHz)	Freq. Range (MHz)	SS Gain (dB)	Pout @ -1dB (dBm)	OIP3 (dBm)	Noise Figure (dB)	Return Loss		Supply Voltage (VDC)	Ic (mA)	Package
						INPUT (-dB)	OUTPUT (-dB)			
<b>DIE</b>										
GSA-503-00	0.01 ~ 3000	20	+16	+25	3.5	15	15	+5.0	48	Chip
GSA-603-00	0.01 ~ 4000	20	+16	+28	3.6	15	15	+6.0	48	Chip
GSA-606-00	0.01 ~ 9000	15	+15	+28	4.0	15	15	+6.0	48	Chip
GSA-612-00	0.01 ~ 15000	12	+12	+27	5.5	15	15	+6.0	48	Chip
GSA-804-00	0.01 ~ 4000	12.5	+20	+40	4.5	15	15	+8.0	95	Chip
GSP-7427-00	0.01 ~ 6000	16	+26	+45	4.5	15*	7*	+7.0	130	Chip
GSP-7430-00	0.01 ~ 6000	17	+30	+51	5.5	15*	7*	+7.0	360	Chip
GSP-7433-00	0.01 ~ 6000	12	+34	+53	5.5	15*	7*	+7.0	700	Chip
<b>GAIN BLOCKS</b>										
GSA-503-89	0.01 ~ 3500	20	+16	+25	3.5	15	15	+5.0	48	SOT89
GSA-504-12	0.01 ~ 4000	20	+15	+27	3.6	15	15	+5.0	48	12
GSA-603-12	0.01 ~ 3500	18	+16	+28	3.8	15	15	+6.0	48	12
GSA-606-12	0.01 ~ 7000	15	+15	+28	4.0	15	15	+6.0	48	12
GSA-612-12	0.01 ~ 12000	12	+12	+27	5.5	15	15	+6.0	48	12
GSA-804-89	0.01 ~ 4000	12.5	+20	+40	4.5	15	15	+8.0	95	SOT89
GSA-804-12	0.01 ~ 4000	12.5	+20	+40	4.5	15	15	+8.0	95	12
<b>POWER DEVICES</b>										
GSP-7427-89	0.01 ~ 6000	16*	+26*	+45*	6.0*	15*	7*	+7.0	130	SOT89
GSP-7430-30	0.01 ~ 6000	17*	+30*	+51*	7.0*	15*	7*	+7.0	360	30
GSP-7433-30	0.01 ~ 6000	16*	+34*	+53*	7.0*	15*	7*	+7.0	700	30
GSP-7436-40	0.01 ~ 6000	12*	+36*	+55*	7.0*	15*	6*	+7.0	1400	40

Devices marked with ( \* ) require external matching circuits

## HETEROSTRUCTURE FIELD-EFFECT TRANSISTORS

Part Number (RF Specifications @ 2 GHz)	Freq. Range (MHz)	SS Gain (dB)	Pout @ -1dB (dBm)	OIP3 (dBm)	Noise Figure (dB)	Return Loss INPUT (-dB)	Return Loss OUTPUT (-dB)	Supply Voltage (VDC)	Ic (mA)	Package
<b>HFET DIE</b>										
GSF-501-00	50 ~ 1000	18	+25	+41	4.5	4	6	+5.0	160	Chip
GSF-504-00	0.01 ~ 4000	13	+24	+40	3	6	15	+5.0	150	Chip
GSH-912-00	0.01 ~ 12000	13	+27*	+41*	3.5	15*	15*	+9.0	100	Chip
<b>HFET GAIN BLOCKS</b>										
GSF-504-89	0.01 ~ 4000	13	+24	+40	3.3	6	14	+5.0	150	SOT89
GSF-504-12	0.01 ~ 4000	13.5	+24	+40	3.0	7	15	+5.0	150	12
<b>HFET MEDIUM POWER DEVICES</b>										
GSF-501-08	50 ~ 1000	13**	+25	+41**	4.5	14**	18**	+5.0	320**	SOIC8
GSF-501-30	50 ~ 1000	13**	+25	+43**	4.5	18**	18**	+5.0	320**	30
GSH-904-89	100 ~ 4000	21	+27*	+42*	3.5	15*	15*	+8.0	150	SOT89
GSH-912-12	100 ~ 12000	21	+27*	+42*	3.0	15*	15*	+5.0	95	12

Devices marked with ( \* ) require external matching circuits

Devices marked with (\*\*) are rated in a 75-ohm, push-pull CATV circuit

Devices marked with (\*\*) are rated in a 75-ohm, push-pull CATV circuit