

1920AB25

25 Watts, 25 Volts, Class AB Personal 1930 - 1990 MHz

transistor is specific BASE STATION utilizes Gold meta high reliability an	B, RF output power over the b fically designed for PERSON N amplifier applications. It inc alization and HIGH VALUE F d supreme ruggedness	AL COMMUNICATIONS ludes Input prematching and EMITTER ballasting to provide	55CX, STYLE 2 COMMON EMITTER
	Dissipation @ 25°C	87 Watts	
Maximum Volta BVces Collec	ge and Current tor to Emitter Voltage	60 Volts	
LVceo Colleo	ctor to Emitter Voltage	27 Volts	
BVebo Emitte	r to Base Voltage	3.5 Volts	
Ic Collecte	or Current	10.0 Amps	
Maximum Temp	eratures		
Storage Temperat	ure	- 65 to + 150°C	
Operating Junctio	n Temperature	+ 200°C	

ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
Pout Pin Pg η _c VSWR ₁	Power Out Power Input Power Gain Collector Efficiency Load Mismatch Tolerance	F =1990 MHz Vce = 25 Volts Icq = 0.27 Amps As Above	25 8.0	9.0 43	4.0 3:1	Watt Watt dB %

BVces LVceo BVebo Ices h _{FE} Cob θjc	Collector to Emitter Breakdown Collector to Emitter Breakdown Emitter to Base Breakdown Collector Leakage Current DC - Current Gain Output Capacitance Thermal Resistance	Ic = 50 mA Ic = 50 mA Ie = 10 mA Vce = 27 Volts Vce = 5 V, Ic = 0.7 A F =1 MHz, Vcb = 28 V Tc = 25°C	60 27 3.5 20	28	10 100 2.0	Volts Volts Volts mA pF °C/W	
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Issue February 1996

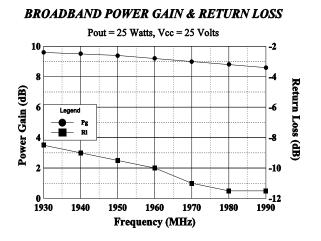
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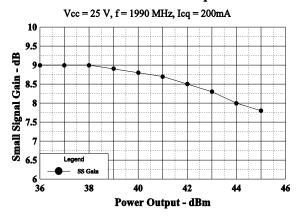
Typical Performance

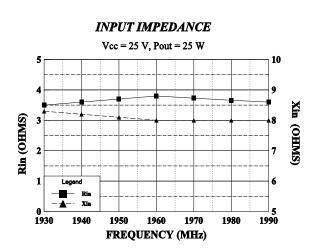
CHz TECHNOLOCY RF-MIGROWAVE SILICON POWER TRANSISTORS

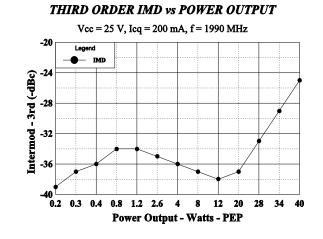
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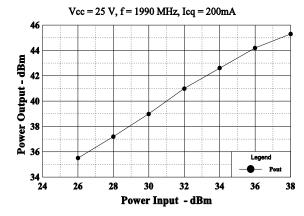
Power Gain vs Power Output

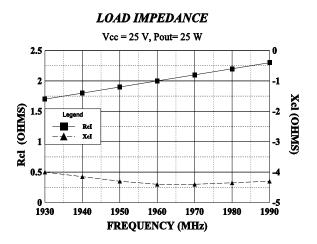






Power Output vs Power Input - dBm





		DESCRIPTION	DATE	APPROVED
2		-2.000 $ 0.2$.000
		4.240		
<u> </u>	X DIM .750	4.240 Y DIM .089		
1	.750 .905	Y DIM .089 .130		
1 2 3	.750 .905 .305	Y DIM .089 .130 1.300 C1,C2=	100pf ATC	
1 2 3 4	.750 .905 .305 .465	Y DIM .089 .130 1.300 1.300 1/32"	100pf ATC PTFE glass Er=2.5	
1 2 3 4 5	.750 .905 .305 .465 .170	Y DIM .089 .130 1.300 1.300 1/32"		
1 2 3 4 5 6	.750 .905 .305 .465 .170 .850	Y DIM .089 .130 1.300 1.300 1/32" .425 .140		
1 2 3 4 5	.750 .905 .305 .465 .170 .850 .100	Y DIM .089 .130 1.300 1.300 1/32" .425 .140 .300		
1 2 3 4 5 6 7	.750 .905 .305 .465 .170 .850	Y DIM .089 .130 1.300 1.300 1/32" .425 .140	PTFE glass Er=2.5	ATE: 28 AUG 9