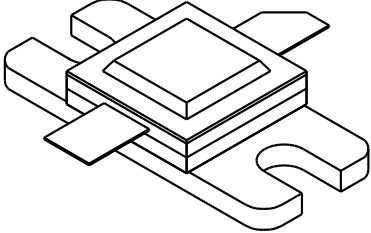


## 2021-25

25 Watts, 24 Volts, Class C  
Microwave 2000 - 2130 MHz

<p><b>GENERAL DESCRIPTION</b></p> <p>The 2021-25 is a COMMON BASE transistor capable of providing 25 Watts, Class C output power over the band 2000-2130 MHz. The transistor includes input and output prematching for full Broadband capability. Gold metalization and diffused ballasting are used to provide high reliability and supreme ruggedness. The transistor uses a fully hermetic High Temperature Solder Sealed package.</p>	<p><b>CASE OUTLINE</b> <b>55AW, STYLE 1</b></p> 
<p><b>ABSOLUTE MAXIMUM RATINGS</b></p> <p>Maximum Power Dissipation @ 25°C 58 Watts</p> <p><b>Maximum Voltage and Current</b></p> <p>BVces Collector to Emitter Voltage 40 Volts          BVebo Emitter to Base Voltage 3.5 Volts          Ic Collector Current 3.0 Amps</p> <p><b>Maximum Temperatures</b></p> <p>Storage Temperature - 65 to + 200°C          Operating Junction Temperature + 200°C</p>	

### ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Pout	Power Out	F = 2000-2100 MHz	25			Watts
Pin	Power Input	Vcc = 24 Volts			5.0	Watts
Pg	Power Gain		7.0			dB
$\eta_c$	Efficiency			50		%
VSWR1	Load Mismatch Tolerance	Pout = 25 Watts			3:1	

BVces	Collector to Base Breakdown	Ic = 10 mA	40			Volts
BVebo	Emitter to Base Breakdown	Ie = 5 mA	3.5			Volts
Hfe	Current Gain	Vce = 5V, Ic=1 A	20		120	
Cob	Output Capacitance*					pF
$\theta_{jc}$	Thermal Resistance	Tc = 25°C			3.0	°C/W

\* Not measureable due to internal prematch network

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