

1-33-04



ART 2082

CD 2087  
CD 2088

**RF POWER TRANSISTORS-NPN**

**RUGGED High Gain, N.P.N. UHF Power Transistor for use up through 500 MHz.**

CD 2087 can be operated at full class A at 1 watt PEP or 3 watts in class AB, B or C operation.

CD 2088 can be operated at full class A at 3 watts PEP or 10 watts in Class AB, B or C operation.

	CD2087	CD2088	
Maximum Power dissipation (See Note)			
Total power dissipation at $T_{case} = 25^{\circ}C$	10	25	W

**Maximum Voltage and Current**

Collector to Emitter voltage	$V_{CES}$	50	50	V
Emitter to Base Voltage	$V_{EBO}$	4	4	V
Collector Current	$I_C$	0.5	1.2	A

**ELECTRICAL CHARACTERISTICS (25°C unless otherwise specified)**

Power Output ( $V_{CC} = 28$ V, $f = 400$ MHz)	$P_{OUT}$ min.	3	10	W
Power Input ( $V_{CC} = 28$ V, $f = 400$ MHz) (At rated Power Output)	$P_{IN}$ max.	0.3	1	W
Collector Efficiency (At rated Power Output)	$\eta$ min.	60	60	%
Series Input Impedance (At rated Output Power and frequency)	$Z_{IN}$ typ.	4.4*	1.7*	$\Omega$
Series Load Impedance (At rated Output Power and frequency)	$Z_L$			$\Omega$
Collector to Base Capacitance ( $V_{CB} = 28$ V, $I_E = 0$ , $f = 1$ MHz)	$C_{CB}$ max.	5	13	pF
Emitter to Base Voltage at $I_E = 5$ mA	$V_{EBO}$ min.	4	4	V
Collector to Emitter at $I_C = 50$ mA	$V_{CES}$ min.	50	50	V

**NOTE:**

This rating gives a maximum junction temperature of 200°C with junction to case thermal resistance of 7.0°C/watt.

B001-5814 EDITOR SA

