



**Power RF Amplifiers**

**Power = 15.0 Watts**

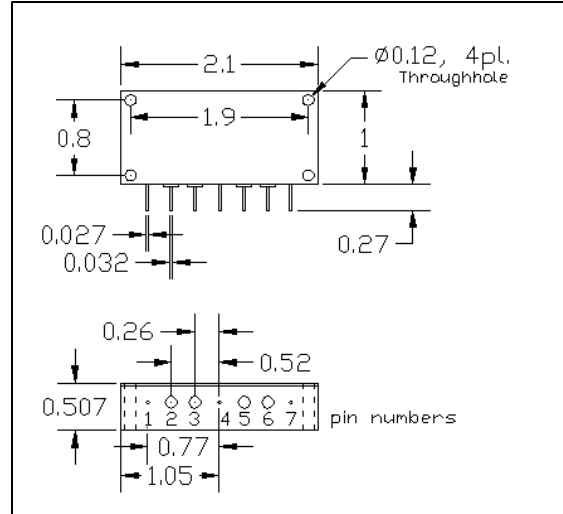
**Bandwidth = 20 to 520 Mhz**

**Gain = 27.0 dB Vdd = 25.0 Volts**

**50 ohms Input/Output Impedance**

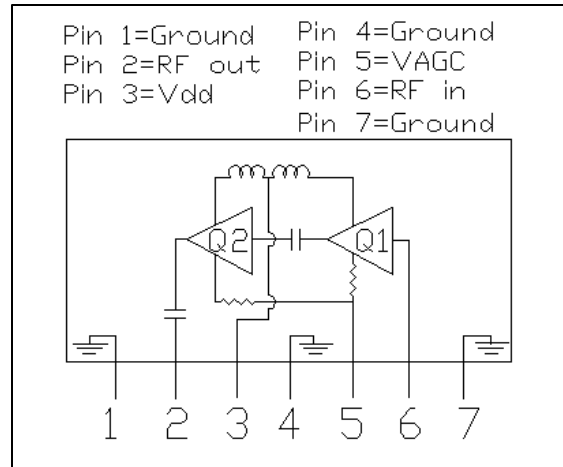
**Description**

The MCCQ01 is a 15 Watt, 2 stage high gain amplifier module covering a bandwidth of 20-520 Mhz. The operating temperature range is extended to -40C to +85C



**Absolute Maximum Ratings (T=25 °C)**

Parameter	Symbol	Value	Unit
DC supply Voltage 1	VDD1	32.0	V
DC supply Voltage 2	VDD2		V
AGC Voltage	VAGC	8.00	V
Input Power	Pin	0.05	W
Output Power	Pout	20.0	W
Operating Case Temp.	Tc	-40 to +85	°C
Storage Temperature	Tstg	-45 to +100	°C



**Electrical Characteristics: ( T=25°C Zs=Zl=50 ohms. Vdd=25.0 Volts )**

Parameter	Symbol	Min	Typical	Max	Unit	Test Conditions
Frequency Range	BW	20		520	Mhz	50 ohm load
Output Power	Po	15.0			Watts	Idq = 2.20 Amps
Power Gain	PG	27.0			dB	@ Pout = 15.0 Watts
Total Efficiency	h	15			%	@ Pout = 15.0 Watts
2nd / 3rd Harmonics	dso	-15.00			dBc	@ Pout = 15.0
Load Mismatch Tolerance	VSWR	10:1			Relative	All Phase Angles

# MCCQ01

