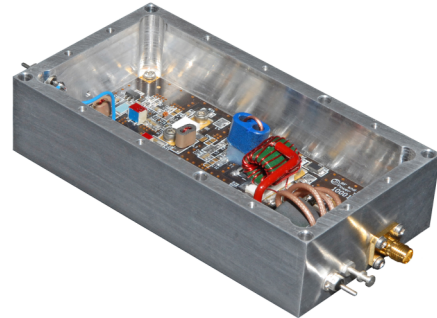


HD30637

150-225 MHz 20W Amplifier

- ❖ Class A 20W linear amplifier
- ❖ 150-225MHz bandwidth
- ❖ 50dB minimum gain
- ❖ +/- 1.0dB typical gain flatness
- ❖ Temperature-compensated bias
- ❖ 50 ohms input/output
- ❖ Available with disable, heatsink and fan, or enclosed with DC supply



The HD30637 is a Class A RF amplifier module, perfect as a standalone laboratory amplifier, or as a driver stage in military, commercial, industrial, medical and scientific or VHF TV broadcast systems. It exhibits excellent full power and back-off linearity, and utilizes all gold metallized MOSFETs for exceptional ruggedness.

Specifications

$V_{sup} = +28VDC$, $I_{DQ} = 3.45A$, $P_{out} = 20W$, $T_{base} = 25^{\circ}C$, $Z_{load} = 50\Omega$

Parameter	Min	Typ	Max	Units
Freq. Range	150		225	MHz
P_{1dB}	20	24		W
Input Power		-9	-7	dBm
Gain	50	52		dB
Gain Flatness		+/-1.0	+/-1.5	dB
Drain Current		3.45	3.70	A
Efficiency		21	19	%
IRL		-20	-14	dB
f_2		-29	-24	dBc
f_3		-30	-25	dBc
IMD_3 20W PEP, $\Delta f=10kHz$		-32	-28	dBc
Dimensions	2.30 X 4.65 X 1.31 (58.42 X 118.11 X 33.27)			inch (mm)

Maximum Ratings

Operation beyond these ratings will void warranty.

Parameter	Value
V_{sup}	24-28VDC
Bias Current	3.45A
Drain Current	3.80A
Load Mismatch*	5:1
Housing Base Temp.	65°C
Storage Temp.	-40°C to 85°C

*All phase angles, 20W forward power, current limited to 3.8A for 3 seconds max.

Option Ordering Info

Disable (TTL, active high)	HD30637
Heatsink and fan	HD30637-HSF
Enclosure with DC supply and fan	HD30637-EHSF