

**Linearized UHF Power Amplifier
6 Watts
PART NUMBER: BTL-xxxx-57-6**

Parameter	Specifications
Frequency Range	380-400 MHz (BTL-0390-57-6)
Alternate Frequency Bands	400-420 MHz (BTL-0410-57-6) 410-430 MHz (BTL-0420-57-6) 430-450 MHz (BTL-0440-57-6) 450-470 MHz (BTL-0460-57-6) 470-477 MHz (BTL-0470-57-6) 920-960 MHz (BTL-0940-57-6)
RF Output Power	37.8 dBm (6 Watts)
RF Gain	57 ± 1dB
RF Gain flatness	± 0.5 dB
RF Gain change Temp	± 0.5 dB
IMD 100 KHz spacing	-69 dBc
IMD 2500 KHz spacing	-69 dBc
Dynamic Range	≥30 dB
Input/Output RL	15 dB/18 db min
Output Protection	Isolator
DC Input Power	+28 Vdc
DC Current	3.2 A max
Cooling	Conduction through base plate
Package Dimensions/ Outline	Package Style F-10
Operating Temperature	-30° to + 80° C

**Linearized UHF Power Amplifier
6 Watts
PART NUMBER: BTL-xxxx-57-6**

I/O Interfaces

Control & Alarm (17W2 Pin Hybrid D-sub Male Connector)

Pin Number	Function	Description
A1	+28 VDC return	
A2	+28 VDC	
1	Fault Reset	Digital input, active low
2	RF Power Enable	Digital input, active low
3,4,5,6,8,11,13,15	Unused	
7	Fault Indication	Digital Output, active low
9	Signal Ground	
10	Baseplate Temperature Sense	Analog, 2.5V @ +25°C
12	Forward RF Power Detector	Analog, from 38dBm to 23 dBm, 3.3V to .7V, .14V/dB
14	Reverse RF Power Detection	Analog, from 38dBm to 23 dBm, 3.3V to .7V, .14V/dB