



## 1090MHz 600W IFF TRANSMITTER

- **LOW PHASE NOISE**
- **HIGH RELIABILITY**
- **COMPACT DESIGN**

The BUTL10 is a high power transmitter for IFF application. The unit incorporates a very accurate signal source and a power amplifier. The transmitter has excellent impulse characteristic and high isolation between the two output ports. In order to use common transmitter and receiver antenna an internal circulator puts the received signal toward the receiver port.

### Electrical characteristics:

Frequency of Operation	1090MHz (+/- 0.5 MHz)
Peak Power Output	600 W @ each port
Number of Output Ports	2 (switched through SPDT switch)
Switching Speed between Ports	5 usec
Duty Cycle	1% typ. (5% max)
Pulse Width	80 usec max.
Pulse Rise / Fall Time	50 to 100 nsec / 20 to 200 nsec
Modulation	PPM (High Level)
TX1 to TX2 / RX1 to RX2 Port Isolation	50 dB
TX to RX Port Isolation	20 dB
Control Input for Ports	TTL
VSWR at Ports	1.5 : 1
Power Supply	+ 5V / 0.2A , + 12V / 0.3A , + 50V / 1A @ 1% duty cycle
LO Outputs	2 x 13 dBm/each typ.
VSWR at LO Ports	1.5 : 1
ON / OFF ratio of bracket modulator	40 dB (Isolation between LO and RF path)
Output Connectors	SMA – female (for LO and RF)
Power Monitoring	“H” TTL > 350 W / “L” TTL < 350 W
Operating /Storage Temperature Range	-40 °C to 85°C
Size	220 x 150 x 26 mm
Weight	1450 g

Specifications are subject to change without notice.



**Outline drawing (mm):**

