

## Description

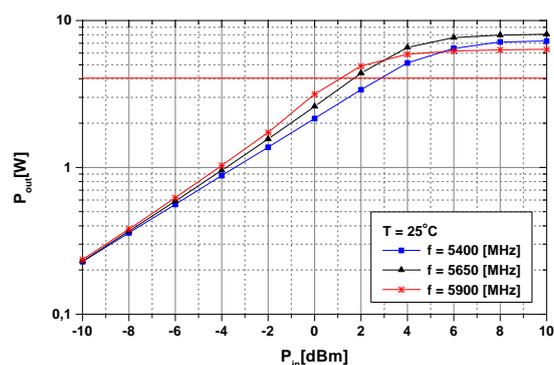
The WTCI-4 is C-band semiconductor pulse high power amplifier. The amplifier is intended to be used mainly as power booster to drive high power TWTs type LO-560 and LO-550. The structure of the amplifier consists of microwave amplifying section (microwave amplifier based on A class FET transistors) and supply and control unit. Control unit stage, drive by an external trigger pulse, switches DC power on only for the time when RF pulse is present to minimize power dissipation. The amplifier is protected against microwave pulse width exceed specified level and negative voltage feed also. At the output is isolator assure amplifier stability and insensitivity to load mismatch. The amplifier includes built in test equipment unit (BITE), internal output power regulator and output power control plug.



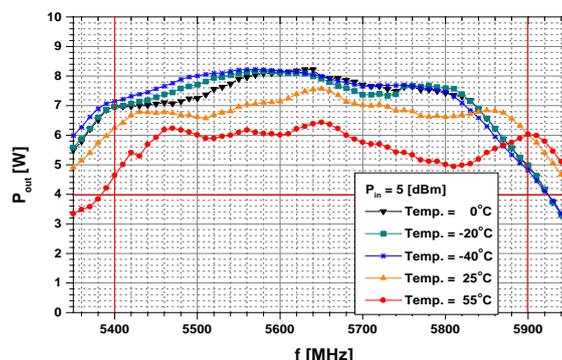
## Parameters

Frequency range	5.4 ÷ 5.9 GHz
Output power	4 W min.
Small Signal gain	33 dB min.
Duty factor	5% max. (*)
RF Pulse width	50 $\mu$ s
DC supply	24V / -12V
Load VSWR	any
Trigger pulse	5V / 2 $\mu$ s
BITE	too low output power level
	no DC supply
	no trigger pulse
Operating temperature	-40°C ÷ +55°C
Output power control connector	SMB(m)
RF connector	SMA (f), SMA (m) or N (f)
Control and supply connector	DBM9W4P

## Example characteristics



Saturation characteristic (frequency as parameter).

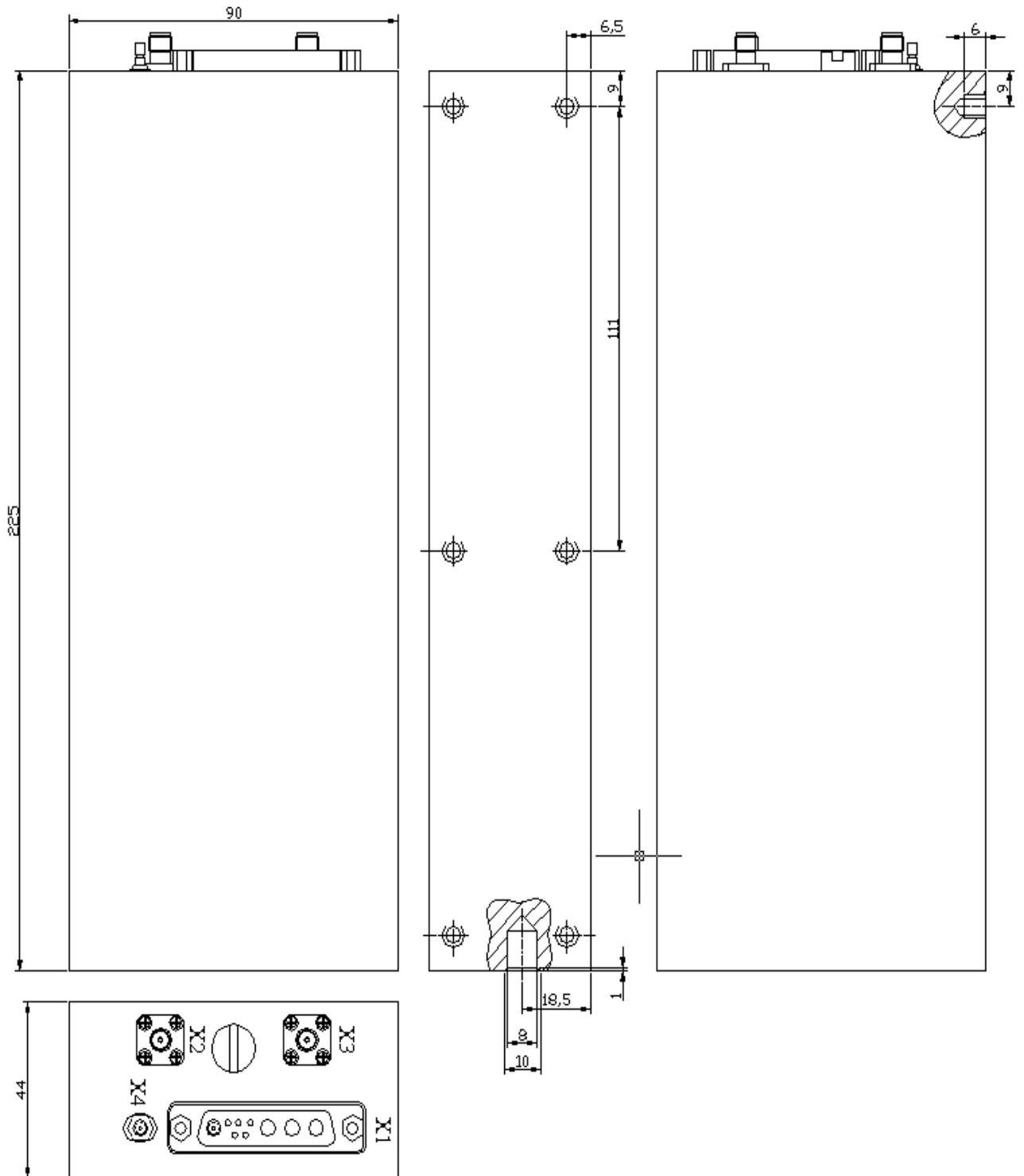


Output power vs. frequency (temperature as parameter).

(\*) Other values up to 100% (CW) can be discussed

**PIT - RADWAR S.A.**  
**WROCLAW DIVISION**

50-425 Wrocław, ul. Krakowska 64, Poland; tel. (+48) 71-342-65-54; fax (+48) 71-342-58-59; e-mail: sales@dolam.pl  
 53-439 Wrocław, ul. Grabiszyńska 97 tel. (+48) 71-361-18-19 ; fax. (+48) 71-361-73-19; e-mail: office@pitow.wroc.pl



The mechanical dimensions can be modified. Current detailed outline drawing are available on request.  
All mechanical dimensions are in [mm].

## PIT - RADWAR S.A. WROCLAW DIVISION

50-425 Wrocław, ul. Krakowska 64, Poland; tel. (+48) 71-342-65-54; fax (+48) 71-342-58-59; e-mail: sales@dolam.pl  
53-439 Wrocław, ul. Grabiszyńska 97 tel. (+48) 71-361-18-19 ; fax. (+48) 71-361-73-19; e-mail: office@pitow.wroc.pl