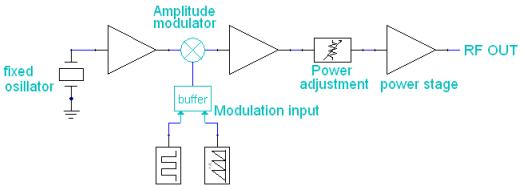
# QMODP3xx 120W Q-switch driver





## Specifications

| | |
|---|---|
| **Carrier frequency** | 27.12 or 40.68 MHz |
| **Frequency stability** | +/-1 ppm/℃ |
| **Power Supply** | 24 VDC - nom 12-14 A |
| **Rise Time / Fall time (10-90 %)** | < 100 ns typ 50ns |
| **DPC control (Digital Pulse Control)** | TTL reversed / 1 kΩ, PULL DOWN |
| **Analog power control** | analog 0-5 V / 10 kΩ<br>Type PAC : RF OFF LEVEL Control |
| **Maximum RF power adjustment** | *with external potentiometer<br>*Analog 0-5V / 1 kΩ |
| **Extinction ratio** | > 40 dB, typ 45 dB |
| **Output RF power** | ≥ 120 Watts |
| **Output Power Measurement** | Analog signal through Pin 6 (load 1 Kohms) |
| **Returned Output Power Measurement** | Analog signal through Pin 8 (load 1 Kohms) |
| **Output Impedance** | 50 Ω |
| **V.S.W.R.** | Nom < 1.5/1 |
| **RF connector** | BNC |
| **Controls connector** | DB15 |
| **Thermal security QST** | SMC / for Q-switch (Possibility to disable / switch ) |
| **Thermal Alarm QST** | TTL Signal through Pin 5 (default indication for QST) |
| **Thermal security DRIVER** | Driver Automatic switch off for Tcase>70℃ |
| **Thermal Alarm driver** | TTL Signal through (default indication for driver) |
| **Size** | 183 x 140 x 26 $mm^3$ |
| **Weight** | 1 kg |
| **Heat exchange** | CONDUCTION THROUGH BASEPLATE<br>MUST BE ATTACHED ON A HEATSINK OR WATER COOLED PLATE |
| **Operating temperature / Case Temperature** | 10 to 70 ℃ |
| **Warm up time** | Immediate use (15 min for maximum output power stability) |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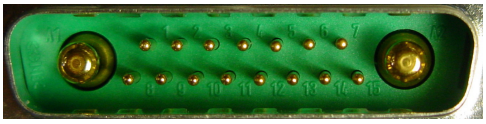
## PIN CONNECTIONS



**GND** **Control** **+ 24VDC**

1- PAC : ANALOG POWER CONTROL (0-5V/10k)
2- DPC : TTL R Input (1k)
3- FAC : Power adj. (0-5V/10k)
4- +5V out (100mA max, must be link to FAC if not used)
5- Ground
6- Return output power measurement (RF OUT)
7- Output power measurement (RF OUT)
8- Ground
9- Ground
10- Alarm / Driver thermal security (5V OK, 0V T° Driver >70°C)
11- Alarm / QST thermal security (5V OK, 0V AO too hot)
12- Ground
13- Ground
14- NC
15- NC

A1- Power supply Ground
A2- Power supply +24VDC

## Outline Drawing sizes in mm OEM Version

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