

# QMODP1Axx

#### **Product Overview**

These drivers based on quartz oscillators, produce a fixed stable and accurate RF frequency signal. The built in amplifier delivers the necessary RF power to drive an air cooled or water cooled Q-switch up to 200 W. The RF output power can be externally modulated with a TTL and analog 0-5 V signal. This version of driver is using the latest technology of transistors and decreases significantly heat dissipation.

### **FEATURES**

- Fixed frequency 27.12, 40.68, 68, 80 and 110MHz
- RF power up to 200 Watts
- TTL + Analog controls
- Temperature / VSWR controls
- RoHS



### SPECIFICATIONS (T=25°C)

Units	Specifications
MHz	27.12 / 40.68 / 68 / 80 /110
ppm/°C	Nom +/- 1
Ppm	< 50
W	a) $\geq$ 20 b) $\geq$ 40 c) $\geq$ 80 d) $\geq$ 120 e) $\geq$ 200
VDC	24 +/- 0.5 up to 80W - 28VDC @120W - 48VDC @200W a) <3.5 A b) <3.5 A c) < 6.5 A Connector MSTB 2 pts 5.08 male ref:0707248
	TTL Reversed / 1 k $\Omega$ Pull down (DPC) (0 = RF ON)
	0-5 V / 10 kΩ, 5V= RF HIGH LEVEL Control (FAC)
ns	Nom 30 (<50)
	AB
Ω	50
	< 1.5/1
dB	> 45
	Analog signal / (Load 1 ΚΩ)
	Analog signal / (Load 1 ΚΩ)
	SMC (protection against overheating) (for versions ≥40W)
	Automatic switch off for Tcase>70°C
	TTL Signal
	TTL Signal
	BNC / DB 15 / SMC
	148 x 114 x 27 mm3 / 635 g
	Conduction through baseplate for OEM versions
°C	10 to 40 (max Tcase 55°C)
°C	-40 to +85
	MHz ppm/°C Ppm W VDC  ns  dB



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#### **PIN Connections**

### DB15 connector

- 1- PAC: ANALOG POWER RF OFF LEVEL (0-5V/10 Kohms)
- 2- GND
- 3- DPC: TTL Reversed Input (1Kohms)
- 4- GND
- 5- Alarm / QST thermal security (5V OK, 0V AO too hot)
- 6- Forward Output Power signal
- 7- GND
- 8- Returned Output Power signal
- 9- FAC: Analog Power adjustment (0-5V/10 Kohms)
- 10- GND
- 11- +5VDC output (100mA max, can be wired to FAC)
- 12- GND
- 13- NC
- 14- GND
- 15- Alarm / Driver thermal security (5V OK, 0V T° Driver >70°C)





### **MECHANICAL DRAWINGS (mm)**

