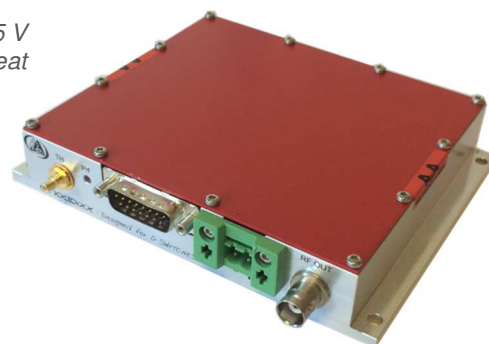


### Product Overview

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 Q-switch up to 70 W.

The RF output power can be externally modulated with a TTL and analog 0-5 V signal. 3 output power versions are proposed in order to optimize heat dissipation.

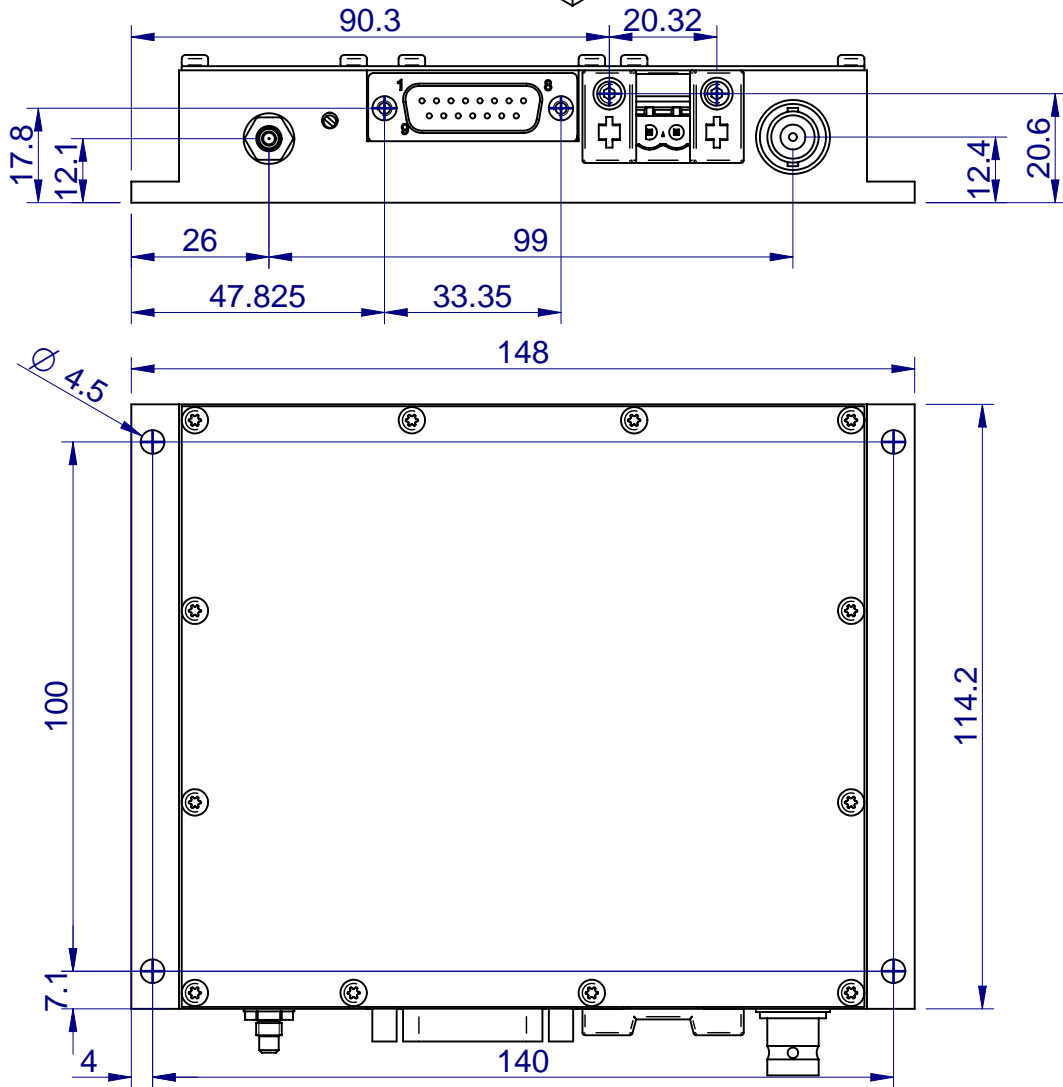
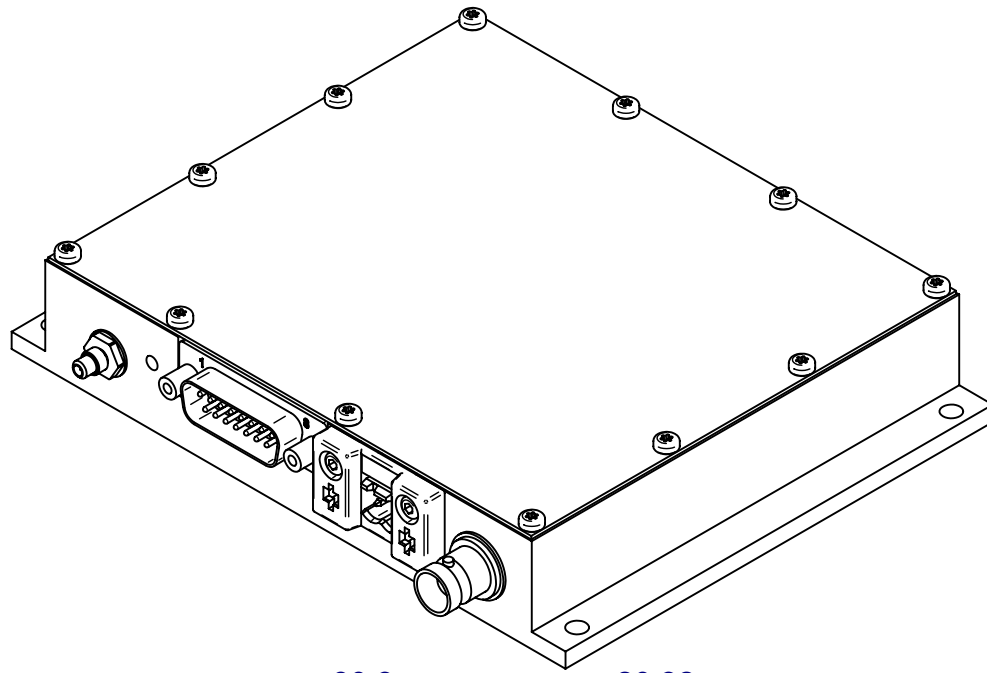



### Features

- Fixed frequency 27.12, 40.68, 68 and 80 MHz
- RF power up to 70 Watts
- TTL + Analog controls
- Temperature / VSWR controls
- RoHS

|                                     | Units  | Specifications  |
|-------------------------------------|--------|---|
| Carrier Frequency                   | MHz    | 27.12 / 40.68 / 68 / 80   |
| Frequency Stability                 | ppm/°C | Nom +/- 1   |
| Frequency Accuracy                  | Ppm    | < 50  |
| Output RF Power (@1dB compression)  | W      | a) ≥ 20 b) ≥ 40 c) ≥ 70   |
| Power Supply OEM version            | VDC    | 24 +/- 0.5 a) <3.5 A b) <3.5 A c) < 6.5 A<br>Connector MSTB 2 pts 5.08 male ref:0707248 |
| Digital Control (Pin 3)             |        | TTL Reversed / 1 kΩ Pull down (DPC) (0 = RF ON)   |
| Analog Control (Pin 9)              |        | 0-5 V / 10 kΩ, 5V= RF HIGH LEVEL Control (FAC)  |
| Rise Time/Fall time (10-90%)        | ns     | Nom 30 (<50)  |
| Class                               |        | AB  |
| Output Impedance                    | Ω      | 50  |
| VSWR                                |        | < 1.5/1   |
| Extinction Ratio                    | dB     | > 45  |
| Forwarded Power Measurement (Pin 6) |        | Analog signal / (Load 1 KΩ)   |
| Returned Power Measurement (Pin 8)  |        | Analog signal / (Load 1 KΩ)   |
| Thermal Security Q-Switch           |        | SMC (protection against overheating) (for versions ≥40W)                                |
| Thermal Security Driver             |        | Automatic switch off for Tcase>70°C   |
| Thermal Alarm Q-Switch (Pin 5)      |        | TTL Signal  |
| Thermal Alarm Driver (Pin 15)       |        | TTL Signal  |
| Input / Output Connectors           |        | BNC / DB 15 / SMC   |
| Size / Weight                       |        | 148 x 114 x 27 mm3 / 635 g  |
| Heat Exchange                       |        | Conduction through baseplate for OEM versions   |
| Operating Temperature               | °C     | 10 to 40 (max Tcase 55°C)   |
| Storage Temperature                 | °C     | -40 to +85  |

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|      |  |             |  |   |  |  |   |
|------|--|-------------|--|---|--|--|---|
|      |  |             |  | Nom: _____  |  | Cotes après traitement sauf contre indications | Tolérances: $\pm 0.1\text{mm}$  |
|      |  |             |  | Date: _____   |  |  |   |
|      |  |             |  | Nom: <b>COUTHON S.</b>                                  |  | $\sqrt{3.2\mu\text{m}}$                        |  |
|      |  |             |  | Date: <b>22/01/2009</b>                                 |  |  |   |
|      |  |             |  | Matière: _____  |  |  |   |
|      |  |             |  | Traitement /Finition: _____                             |  |  |   |
|      |  |             |  | Titre: <b>Dossier assemblage QMODP1-03 sans Hybride</b> |  |  |   |
| 0    |  | Création    |  | 22/01/09  |  | S.C  |   |
| Ind. |  | Description |  | Date  |  | Visa   |   |
|      |  |             |  | N° Plan   |  | Ech: _____                                     |   |
|      |  |             |  | 1MODQ09002.0055   |  | Page 1/1                                       |   |
|      |  |             |  | Vue d'ensemble  |  |  |   |