



Gunn Regulators/Modulators

QCR

Characteristics

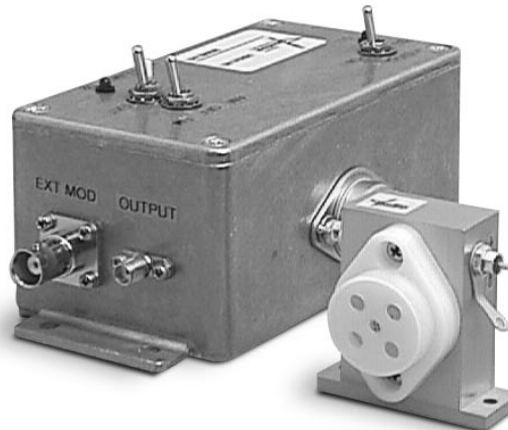
- ◆ Low Noise/Low Ripple
- ◆ Adjustable Output
- ◆ Source Locking Capability

Product Description

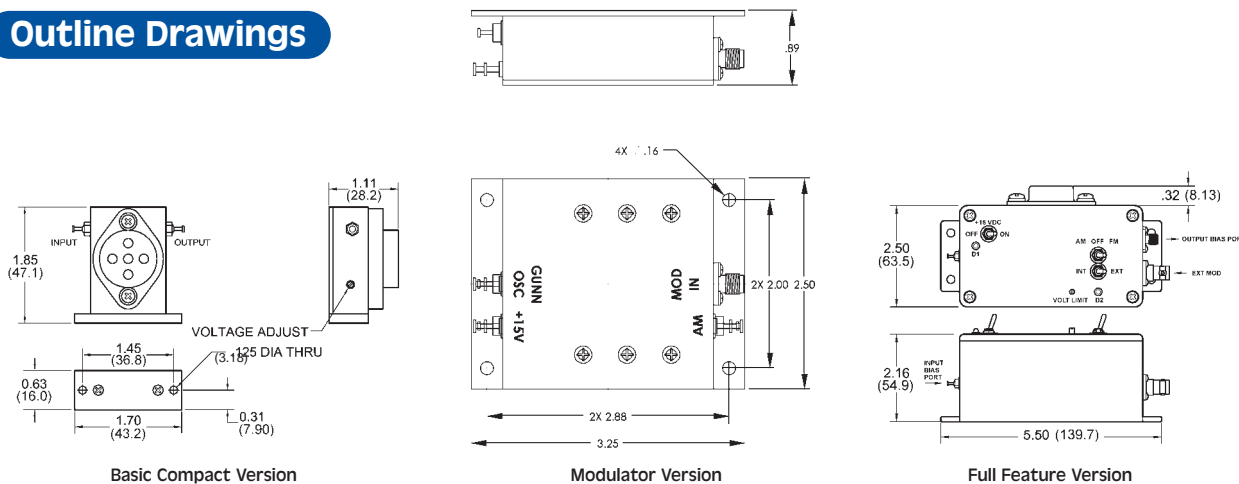
QuinStar Technology's **QCR** series **Gunn regulators** are available in three configurations. The **Basic Compact regulator** is available with and without AM or FM modulation capability. **Modulator Version** includes both AM and FM capability. The **Full Feature Version** offers numerous options, including AM/FM modulation. All versions provide a low noise, low ripple, constant voltage output at a maximum of 2 Amps for bias control. They also have short circuit and over-voltage/over-current protection to prevent oscillator destruction by inadvertent application of a high voltage or current to which Gunn oscillators are

very sensitive. These regulator features are important for optimum reliable operation of a Gunn diode oscillator.

For laboratory test stations it is sometimes useful, or required as in an HP8757 Scalar Analyzer, to apply an AM or FM modulation. Provisions exist on the full feature regulator for this modulation to be internally or externally supplied. In addition, the FM modulation option can be used to phase lock the Gunn oscillator using a source locking counter.



Outline Drawings



Ordering Information

Model Number **QCR -** **AB C D 00**

output voltage (rounded to nearest Volt) ←

version ←

C = compact (basic)
F = full feature
M = Modulator (AM & FM)

options →

0 = none
A = AM modulation
F = FM modulation
M = AM/FM modulation
L = source locking capability
Z = custom