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# DATUM 6502 RF DISTRIBUTION

## KEY ADVANTAGES



- **Low Phase Noise**
- **High Channel Isolation**
- **Ten Channel Output Distribution**
- ***Daisy Chain* For More Than 100 Outputs**



The DATUM 6502 Distribution Module packages the well tried and tested DATUM high performance distribution technology in a convenient 1U high unit to distribute high quality RF sine wave signals. The unit houses a set of very low phase noise RF amplifiers while maintaining high isolation (>100 dB) between output channels. Up to ten units can be *daisy chained* to give up to 100 outputs, or each output of one unit can be used as a source for other DATUM 6502 units, to give almost infinite expansion capability with virtually no signal degradation.



datum

**Global Timing Solutions**

# DATUM 6502 RF DISTRIBUTION

## Specifications

**•RF Input:**

| | |
|---|---|
| Frequency | 0.1 to 10 MHz |
| Level | 1 V rms (nominal) |

**•RF Output** (ten)**:**

| | |
|---|---|
| Frequency | 0.1 to 10 MHz |
| Level | 1 V rms (nominal) |
| Gain | 1 (nominal) |
| Harmonic Distortion | < -40 dB |
| Non-Harmonic signals | < -80 dB |
| Load Impedance | 50 Ohms |
| Isolation | >100 dB* |
| Connectors | BNC |

*Isolation between channel one to ten >130 dB

**•Additive SSB Phase Noise:**

*(1 Hz Bandwidth)* Offset from carrier

| | |
|---|---|
| 1 Hz | -120 dB |
| 10 Hz | -135 dB |
| 100 Hz | -145 dB |
| 1000 Hz | -155 dB |
| 10000 Hz | -160 dB |

**•Power Requirements:**

| | |
|---|---|
| AC Input (+/-15%) | 120 or 230 V AC, <10W |
| DC Input (optional) | 22 to 56 V DC, 10W |

**•Dimensions:**

| | |
|---|---|
| Height | 1U (≈1.75 inches) |
| Width | 19 inches |
| Depth | 10 inches |

**•Environmental:**

| | |
|---|---|
| Operating Temperature | 0 to 55°C |
| Relative Humidity | 0 to 95% (non-condensing) |

**•Weight:** <5 lbs.

**•Alarm Output:**

Summary alarm indicates failure of any output signal.

| | |
|---|---|
| Each Output & Main | Red LED |
| Non-alarm condition | Relay energized (fail safe) |
| | C Form contacts |
| Alarm O/P Disable | Panel switch |
| Connector | 9 pin D-male |




**View above shows configuration for rear access distribution and each individual distribution channel's red LED fault display. Front access is available upon request.**

**DATUM markets its products and services through a global network of experienced electronic professionals. For assistance, additional information, or to place an order, please call us.**

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