



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.



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Global Timing Solutions

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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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Specifications subject to change without notice.
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