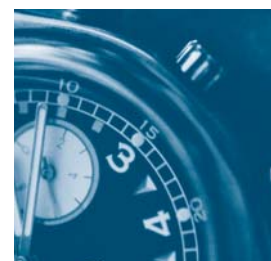


Features

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



DISTRIBUTION MODULES

6502 RF Distribution Module



Overview

The DATUM 6502 Distribution Module is a ten channel, RF distribution amplifier packaged in a 1U rack mount chassis. It is comprised of ten low phase noise RF amplifiers that maintain high channel isolation (>100dB). Up to ten units can be daisy chained together to give up to 100 outputs or each output of one unit can be used as a source for other 6502 units to give almost infinite expansion capability with virtually no signal degradation.

The 6502 standard configuration accepts input frequencies from 0.1MHz to 10MHz at 1Vrms amplitude and provides ten buffered outputs of the same frequency. Each output and input has an alarm indicator that warns of either a loss of signal or a signal of insufficient amplitude.

The 6502 is also available in custom configurations. Please contact Datum - TT&M with any specific requirements.

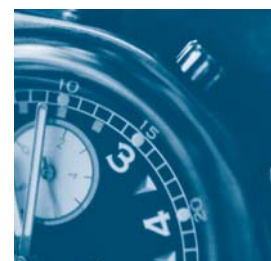


datum

Timing, Test & Measurement

6502 RF Distribution Module

Specifications



DISTRIBUTION MODULES

ELECTRICAL SPECIFICATIONS

RF Output (ten)

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

*Isolation between channels 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
1,000 Hz	-155 dB
10,000 Hz	-160 dB

RF Input

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

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

Controls & Indicators

Power	Green LED, power is connected
Alarm	Red LED, signal output failure
Alarm Override	Toggle Switch:
(optional for 6502B)	Up = Alarm Enabled Down = Alarm Disabled

Please note: If input level is less than 10dBm specify low alarm threshold version (-509).

ENVIRONMENTAL & PHYSICAL SPECIFICATIONS

Temperature (operating)	0° to 55°C
Relative Humidity	0 to 95%, non-condensing

Power Requirements

AC Input (+/-15%)	120 or 230 V AC, <10W
DC Input (optional)	20 to 70 V DC, 10W

Dimensions

Height	1U (~1.75 inches)
Width	19 inches
Depth	12 inches

Weight	<5 lbs.
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Options	Option P/N
• Front mounted connectors	502



Specifications subject to change without notice.
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