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Find the *EADS / Racal / Dana 9915* at our website: *Click HERE*

Frequency Counters
560 MHz, Direct Count
Models 9917A and 9918



Models 9917A and 9918 are 9 digit, 560 MHz frequency counters featuring direct count operation over their entire frequency range. The units feature automatic gain control (AGC) on both channels for ease of use and high noise immunity.

The 560 MHz input channel on both models is protected up to 35 V rms by a fast acting PIN diode attenuator and reed relay.

Model 9917A includes an LF multiplier circuit for fast, accurate measurements of audio and sub-audio signals. A frequency burst mode for measurement of short duration signals and data output are also standard features. A channel C input allows the 9917A to make frequency ratio measurements.

Model 9918 features a full programming option for systems use, and optional GPIB interface is available for both models.

Frequency Measurements

Specification	Model 9917A HF Channel	Model 9918 HF Channel	Model 9918 UHF Channel Model 9917A UHF Channel
Frequency Ranges	10Hz to 60 MHz	10 Hz to 100 MHz	40 MHz to 560 MHz
Scaling Factor	Direct	Direct	Direct
Resolution	0.1 Hz in 10 Sec (0.001 Hz in LF multiplier mode)	0.1 Hz in 10 Sec (0.001 Hz with LF multiplier mode)	0.1 Hz in 10 Sec
Accuracy	±1 count ± timebase accuracy	±1 count ± timebase accuracy	±1 count ± timebase accuracy
Burst Mode	Standard		Standard on 9917A
Gate Time	0.01 Sec, 0.1 Sec, 1 Sec, 10 Sec	0.01 Sec, 0.1 Sec, 1 Sec, 10 Sec	0.01 Sec, 0.1 Sec, 1 Sec, 10 Sec
Display	MHz, kHz, Hz	MHz and Hz	MHz
Self Test	Reads 1 MHz	Reads 1 MHz	Reads all 8s
No. of Digits	9	9	9

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Frequency Counters
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Frequency Ratio (Model 9917A only)

Frequency Range

Channel A: 40 MHz to 560 MHz
Channel B: 10 Hz to 60 MHz
Channel C: 1 kHz to 10 MHz

Ratio Modes: (A/C)N, (B/C)N

Multiplier (N): 10 to 10^4 in decade steps

BCD Interface (Model 9917A only)

Data Output

Display: Serial BCD outputs providing 8 digits and decimal point. TTL logic levels
Static: Function, timebase, and overflow information
Control Inputs: Print hold and reset

General

Internal Reference Output: 1 MHz, rectangular waveform ≈ 600 mV p-p into 50 ohms

External Reference Input: 1 MHz, sine or rectangular wave, ≥ 100 mV to ≤ 10 V rms into 1 kilohm, AC coupled (≥ 500 mV to ≤ 10 V rms into 200 ohms — Model 9918)

Display: Nine 7-segment LEDs

Display Time

Model 9917A: Gate time + 50 mSec
Model 9918: Gate time + 30 mSec

Status Indicators: Units, overflow, gate, external timebase, overload. Model 9918 only: standby, remote

Input Connectors: BNC

Operating Temperature

Model 9917A: 0°C to + 55°C
Model 9918: −5°C to +55°C

Storage Temperature: −40°C to +70°C

Humidity: 95% RH at +40°C

Power Requirements

Filtering: EMI/RFI filtering standard
Voltage: 94 to 132, 188 to 265 V AC
Frequency: 45 to 450 Hz
Power Consumption
Model 9917A: 20 VA
Model 9918: 24 VA

Dimensions

Model 9917A: 84 H x 241 W x 268.5 D mm (3.25 H x 9.5 W x 10.5 D inches)
Model 9918: 84 H x 355.5 W x 298.5 D mm (3.25 H x 14.0 W x 11.75 D inches)

Weight

Model 9917A: 2.7 kg (6 lb)
Model 9918: 3.25 kg (7.2 lb)

Options

Data Output and Remote Control— (Option 02, Model 9918)

Data Output: 4 line BCD per display digit; 3 line decimal point position; Single line: units, overflow; data ready: (1 mSec pulse) TTL levels

Remote Control:

Selection: Front panel switch or remote signal
Programming: Timebase — 3 line binary; Channel — 2 line binary; Standby — single line; Hold/reset; Print hold

LF Multiplier—Option 09 (Standard on 9917A)

Frequency Range: 10 Hz to 25 kHz

Selection: Front panel switch

Resolution: 1 Hz, 0.1 Hz, 0.01 Hz, 0.001 Hz

GPIB Interface—Option 9932B, Model 9918 Option 9932A, Model 9917A

See Counter Accessories

Serial to Parallel Interface Adapter— (Option 01, Model 9917A)

Description: Converts serial BCD output to 4 line per decade parallel BCD. See Counter Accessories

Ordering Information

Model 9917A: 560 MHz direct count Frequency Counter

Model 9918: 560 MHz direct count Frequency Counter

Options

01: Serial to parallel adapter (Model 9917A)
02: BCD interface (Model 9918)
04A: < 3 x 10^{-9}/day oven oscillator
04B: < 5 x 10^{-10}/day oven oscillator
04C: < 3 x 10^{-7}/month reference oscillator
09: LF multiplier (Standard on Model 9917A)
9932A: GPIB interface (Model 9917A)
9932B: GPIB interface (Model 9918)

Accessories See Counter Accessories

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