

home products service & support news app notes & drivers company profile employment shipping status contact information



Phase Matrix / EIP 585C/588C

Full Function Pulse/CW Counters with an optional Internal Delaying Pulse Generator

585C and 588C Pulse/CW Frequency Counters 100 Hz to 20 GHz/100 Hz to 26 GHz

The 585C/588C Pulse/CW counters are Phase Matrix's highest performance counters. They are capable of measuring the frequency of repetitive pulses as narrow as 50 ns. A 3.5" full rack sized instrument, the 58XC series offer Phase Matrix's YIG filtered front end and optional frequency extension to 170 GHz (on the 588C). Standard features include frequency selectivity (high and low frequency limits), GPIB, simultaneous display of frequency and pulse width or pulse repetition interval. Optional features include an internal delaying pulse generator for automatic frequency profiling.

Frequency Range

Band 0: 100 Hz to 250 MHz (CW only)

Band 1: 250 MHz to 1 GHz

Band 2: 0.95 GHz to 20 GHz (585C) or 26 GHz (588C)

Sensitivity

Band 0: -20 dBm

Band 1: -20 dBm

Band 2: -20 dBm to 2 GHz,

-25 dBm 2 to 12.4 GHz,

-20 dBm to 20 GHz,

-15 dBm to 26.5 (588C)

Pulse Parameters

50 nS minimum pulse width

10 nS minimum profile window

1 Hz to 4 MHz PRF

Pulse Width Measurement 50 nS to 1 sec

FM Tolerance 20 MHz p-p

Standard Time Base

10 MHz TCXO

Stability:

Aging Rate <1x10-7/mo.

Short Tern <1x10-9 RMS 1s ave.

Temp <1x10-6 0 to 50C

Warm up time: 30 min

Optional High Stability Time Base

10 MHz OCXO

Aging Rate <5x10-10/day (after 24hrs warm up.)

Short Tern <2x10-10 RMS 1s ave.

Temp <3x10-9 (0 to 50C)

10% line voltage change <2x10-10

Options:

14 Two Year Warranty Extension (Total 3 years)

15 MIL-STD 45662 (ANSI Z540-1:94)

5803 Rear Panel Inputs

5804 Extended Freq. Capability (588B only)

5809 <5x10-10/day high stability ovenized time base

5810 Internal Delaying Pulse Generator

Accessories:

010 Transit Case

021 Rack Mount Kit with Handles

022 Rack Mount Kit without Handles

031 Extra Operations Manual

032 Maintenance and Service Manual (includes operational info)

043 Service Kit

050 Soft Pac carry case

101 Chassis slide with handles (includes OPT 021)

102 Chassis slide without handles (includes OPT 022)

Frequency Extension Accessories for 588B*

890 Frequency extension cable kit

091 26.5-40 GHz remote sensor, waveguide

092 40-60 GHz remote sensor, waveguide

093 60-90 GHz remote sensor, waveguide

094 90-110 GHz remote sensor, waveguide 095 50-75 GHz remote sensor, waveguide

096 33-50 GHz remote sensor, waveguide

097 26.5-50 GHz remote sensor, coax

098 110-170 GHz remote sensor, waveguide

* requires cable kit 890 and extended

frequency Option 5804

Prices and/or specifications subject to change without notice.

Download the datasheet for the Phase Matrix EIP 585C/588C

Download the Pulse Calculator Pulse.Exe

Locate a Sales Representative

Phase Matrix, Inc. 109 Bonaventura Dr. San Jose, California 95134 - 2106 USA

TEL: +1 (408) 428.1000

TOLL FREE: +1 (877) 474.2736 [4PHASEM] FAX: +1 (408) 428.1500

Sales E-mail: sales@phasematrix.com
Service E-mail: service@phasematrix.com
Quality E-mail: quality@phasematrix.com

5/18/2005 11:22 PM 2 of 2