xDevs.com 2021-2022 ILC

All uncertainty values are k=2 95%

Accredited CAL | FF Lab standards Canada | xDevs HQ standards USA, NJ | TL standards USA, CO | NLab standards USA, NJ | MM Lab standards USA, FL | CM Lab standards USA, IN | LC Lab standards Canada | PP Lab standards

Resistance, Ohm

100 kΩ+ HRB

Fluke 5720A/H1 100.00499 MΩ x.xxxxxx MΩ ±ppm
Fluke 5720A/H1 18.998781 MΩ x.xxxxxx MΩ ±ppm
Fluke 5720A/H1 9.999118 MΩ x.xxxxxx MΩ ±ppm
Fluke 5720A/H1 1.8999821 MΩ x.xxxxxx MΩ ±ppm
Fluke 5720A/H1 0.9999837 MΩ x.xxxxxx MΩ ±ppm
Fluke 5720A/H1 189989.18 Ω x.xxxxxx Ω ±ppm
Fluke 5720A/H1 99994.76 Ω x.xxxxxx Ω ±ppm
Fluke 5720A/H2 100.00499 MΩ x.xxxxxx MΩ ±ppm
Fluke 5720A/H2 18.998781 MΩ x.xxxxxx MΩ ±ppm
Fluke 5720A/H2 9.999118 MΩ x.xxxxxx MΩ ±ppm
Fluke 5720A/H2 1.8999821 MΩ x.xxxxxx MΩ ±ppm
Fluke 5720A/H2 0.9999837 MΩ x.xxxxxx MΩ ±ppm
Fluke 5720A/H2 189989.18 Ω x.xxxxxx Ω ±ppm
Fluke 5720A/H2 99994.76 Ω x.xxxxxx Ω ±ppm
NLab MI 4310AF 10 MΩ ±0.3ppm
NLab MI 4310AFb 10 MΩ ±0.3ppm
NLab MI 4310AF 1 MΩ ±0.3ppm
NLab MI 4310AFb 1 MΩ ±0.3ppm
NLab MI 4310AF 100 kΩ ±0.3ppm
NLab MI 4310AFb 100 kΩ ±0.3ppm

19 kΩ DCC

MMLab F742A-19k 6935001 19000.1025 Ω ±0.6ppm MFG: 19000.08 Ω
Fluke 5720A/H1 18999.277 Ω x.xxxxxx Ω ±ppm
Fluke 5720A/H2 18999.277 Ω x.xxxxxx Ω ±ppm

10 kΩ DCC

FFLab F742A-10k 8250018 10000.2051 Ω ±1.4ppm MFG: 10005.08 Ω 3 NOV 1990
FFLab RWS-10k VHP101 SN 001 9999.807 Ω ±2.3ppm
NLab SRL-10k 10000.0956 Ω ±0.3ppm N104
NLab MI 4310AF 9999.9240 Ω ±0.3ppm
MMLab F742A-10k 5065046 10000.1376 Ω ±0.3ppm TCM000102 MFG: 9999.993 Ω, 1 OCT 1990
N2 ESI SR104 632003 9999.9977 Ω ±0.3ppm
N1 ESI SR104 824001 10000.0306 Ω ±0.3ppm
ESI SR104 948006 9999.9994 Ω EST ±1.23ppm XFER
MMLab SR104 834026 10000.0388 Ω ±0.11ppm 10.JUN.2021 MI CAL
xDevs.com ESI SR104 G202088930104 9999.9995 Ω ±0.16ppm 8.JUN.2019 CMS ITRI TW
xDevs.com ESI SR104 G202088930104 10000.0028 Ω ±0.1ppm 8.JUN.2021 MI CAL
Fluke SL935-10k SN 001 9999.9757 Ω ±0.36ppm
Fluke SL935-10k SN 001 9999.9757 Ω ±0.31ppm CF
T1 ESI SR104 G206098830104 10000.0003 Ω ±0.1ppm 10.JUN.2021 MI CAL
T2 ESI SR104 342022 10000.0013 Ω ±0.1ppm 8.JUN.2021 MI CAL
xDevs.com ESI SR104 G202088930104 10000.00128 Ω ±0.13ppm CF
MMLab SR104 804040 10000.0524 Ω ±0.1ppm 17.OCT.2021 MI CAL
MMLab SR104 G206128830104 9999.9977 Ω ±0.1ppm 17.OCT.2021 MI CAL
ESI SR104 948006 10000.0008 Ω ±0.22ppm GUM 11.JAN.2022
T2 ESI SR104 342022 10000.0023 Ω ±0.25ppm
Fluke SL935-10k SN 001 9999.9751 Ω ±0.23ppm GUM
MMLab F742A-10k 5065046 10000.1407 Ω ±1ppm TCM000102 ΔΩ +0.310 ppm
MMLab SR104 834026 10000.0388 Ω ±0.11ppm 10.JUN.2021 MI CAL
MMLab SR104 804040 10000.0524 Ω ±0.1ppm 17.OCT.2021 MI CAL
Wavetek 4808 10000.474 Ω 10000.07 Ω ±0.70ppm 10.MAR.2022
xDevs.com ESI SR104 G202088930104 10000.00128 Ω ±0.13ppm CF
Fluke SL935-10k SN 001 9999.9757 Ω ±0.31ppm CF

1 kΩ DCC

xDevs.com RWS-1k 999.96461 Ω ±0.26ppm OCT.2021
NLab MNTL 4310AF 999.99236 Ω ±0.2ppm XFR Standard MFG: 999.999853 7.JAN.2009
MMLab F742A-1k 5505003 1000.06219 Ω ±0.35ppm XFER
Fluke 5720A/H1 500 uA 9999.9769 Ω
Fluke 5720A/H2 500 uA 9999.6341 Ω
xDevs.com RWS-1k 999.96515 Ω ±0.36ppm 300uA Δ +0.548 ppm
Fluke 5720A/H1 2 mA 1000.02267 Ω
Fluke 5720A/H2 2 mA 999.92807 Ω
MM G9330-1k 45793 1000.03477 Ω ±0.16ppm GUM
xDevs.com RWS-1k 999.96465 Ω ±0.18ppm 12.JAN.2022 NJBH
xDevs.com RWS-1k 999.965444 Ω ±7ppm MAR.2022 Δ -0.294 ppm
Wavetek 4808 1000.120 Ω 1000.07 Ω ±0.70ppm 10.MAR.2022
xDevs SRS-1k 1000.000 Ω 1000.07 Ω ±0.70ppm MAR.2022
Fluke 5720A/H1 9999.800 Ω x.xxxxxx Ω ±ppm
Fluke 5720A/H2 9999.800 Ω x.xxxxxx Ω ±ppm
Fluke 5720A/H1 1899.880 Ω x.xxxxxx Ω ±ppm
Fluke 5720A/H2 1899.880 Ω x.xxxxxx Ω ±ppm
NLab MI 4310AF 9999.9240 Ω ±0.3ppm
NLab MI 4310AFb 9999.9240 Ω ±0.3ppm
MMLab F742A-1k 5505003 1000.06247 Ω ±0.7ppm XFER ΔΩ -0.280 ppm
Fluke 5720A/H1 1000.0210 Ω x.xxxxxx Ω ±ppm
Fluke 5720A/H2 1000.0210 Ω x.xxxxxx Ω ±ppm
NLab MNTL 4310AF 1000 Ω ±ppm MFG: 999.999853 7.JAN.2009
NLab MNTL 4310AFb 1000 Ω ±ppm MFG: 999.999853 7.JAN.2009

100 Ω DCC

NLab MI 4310AF 99.9992696 Ω ±0.25ppm XFR MFG: 99.9999678 7.JAN.2009
MMLab F742A-100 5445015 100.001240 Ω ±0.7ppm
NLab G9330-100 59954 100.001855 Ω ±0.38ppm XFR
NLab Guildline 9330 S/N 59954 100.0018272 Ω ±0.4ppm GUM JAN.2022
xDevs.com Guildline 9330 1003877 Ω ±0.22ppm GUM
MMLab F742A-100 5445015 100.001196 Ω ±0.7ppm ΔΩ -0.440 ppm
NLab Guildline 9330 S/N 59954 100.018184 Ω ±0.7ppm Δ -0.366 MAR.2022
xDevs.com Guildline 9330 100.003725 Ω ±0.4ppm Δ -1.852 12.MAR.2022
Wavetek 4808 100.00474 Ω 100.04973 Ω ±0.70ppm 10.MAR.2022
Fluke 5720A/H1 189.99194 Ω x.xxxxxx Ω ±ppm
Fluke 5720A/H2 189.99194 Ω x.xxxxxx Ω ±ppm
Fluke 5720A/H1 99.993604 Ω 99.993641 Ω ±7ppm 13.MAR
Fluke 5720A/H2 99.995933 Ω x.xxxxxx Ω ±ppm 12.MAR
NLab MI 4310AF 99.9992696 Ω ±0.25ppm XFR MFG: 99.9999678 7.JAN.2009
NLab MI 4310AFb 99.9992696 Ω ±0.25ppm XFR MFG: 99.9999678 7.JAN.2009

10 Ω DCC

NLab MI 4310AF 9.99994825 Ω ±0.26ppm XFR MFG: 9.99999244 7.JAN.2009
MMLab F742A-10 6330003 10.00094775 Ω ±0.26ppm
NLab 742A-10 7170003 10.00012477 Ω ±0.28ppm CF OCT.2021
Guildline 9330 S/N 59827 10.0003943 Ω ±1ppm Δ -0.460 ppm
NLab 742A-10 7170003 10.0001164 Ω ±1ppm Δ -0.837 ppm
NLab MI 4310AF 9.99993916 Ω ±1ppm Δ -0.009 ppm
NLab Guildline 9330 S/N 59827 10.0003989 Ω ±0.38ppm DEC.2021
Fluke 5720A/H1 EXTSENSE ON EXTGUARD ON 10.00059405 Ω ±0.26ppm GUM
MMLab F742A-10 6330003 10.00094663 Ω ±0.7ppm ΔΩ -0.112 ppm
NLab 742A-10 7170003 10.00011731 Ω ±0.33 ppm Δ +0.09 7.MAR
NLab Guildline 9330 S/N 59827 10.00039837 Ω ±0.33ppm Δ -0.053 7.MAR.2022
Wavetek 4808 10.000055 Ω 10.00013116 Ω ±0.70ppm 10.MAR.2022
Fluke 5720A/H1 19.000192 Ω x.xxxxxx Ω ±ppm
Fluke 5720A/H2 19.000192 Ω x.xxxxxx Ω ±ppm
Fluke 5720A/H1 10.000591 Ω x.xxxxxx Ω ±ppm
Fluke 5720A/H1 1.8997939 Ω x.xxxxxx Ω ±ppm
NLab MI 4310AF 9.99994825 Ω ±0.26ppm XFR MFG: 9.99999244 7.JAN.2009
NLab MI 4310AFb 9.99994825 Ω ±0.26ppm XFR MFG: 9.99999244 7.JAN.2009

1 Ω DCC

NLab 742A-1 6270023 (+1.45 ppm/year) 1.00004519 Ω ±0.28ppm
Fluke SL935-1 SN 001 1.00006304 Ω ±0.31ppm
NLab MI 4310AF 0.99999545 Ω ±0.3ppm PREFEST MFG: 0.99999883 7.JAN.2009
NLab 742A-1 6270023 (+1.45 ppm/year) 1.00004519 Ω ±0.28ppm
MMLab F742A-1.9 8272002 1.90001979 Ω ±0.36ppm MFG: 1.8999780 Ω
MMLab IET SRL-1 B3-9606163 0.99997386 Ω ±0.26ppm
MMLab IET SRL-1 B3-9606157 0.99998657 Ω ±0.26ppm MFG: 0.999999 Ω
L&N 4210 1206891 1.00000383 Ω ±1ppm 50mA
L&N 4210 1206890 1.00000665 Ω ±1ppm 25mA
L&N 4210 1041884 0.99999121 Ω ±1ppm 31.6mA
L&N 4210 1206878 0.99998783 Ω ±1ppm 10mA
L&N 4210 1020840 0.99999412 Ω ±1ppm 10mA
Ohm-Labs 200 S/N 18032 0.9999999 Ω ±0.3ppm 30.NOV Δ -0.719 ppm
Fluke 742A-1 6270023 1.00004446 Ω [1:1] ±0.9ppm Δ -0.735 ppm
Fluke SL935-1R SN 001 1.00000282 Ω ±0.95ppm GUM Δ -0.420 ppm
NLab MI 4310AF 0.9999449 Ω ±1.2ppm Δ -0.960 ppm
Yokogawa 2792 S/N 0.9999892 Ω ±0.45ppm JAN.8
Pipelle 1R (10xVHP100) SN 001 0.99999953 Ω ±0.29ppm GUM
Fluke SL935-1R SN 001 1.00000343 Ω ±0.25ppm GUM
Ohm-Labs 200 S/N 18032 0.9999999 Ω ±0.3ppm OHM-Labs 01.MAR.2022
Yokogawa 2792 S/N 0.9999892 Ω ±0.45ppm JAN.8
Fluke SL935-1R SN 001 1.00000323 Ω ±0.31ppm GUM
NLab 742A-1 6270023 1.00004478 Ω [1:1] ±0.35ppm GUM
Pipelle 1R (10xVHP100) SN 001 0.99999949 Ω [1:1] ±0.31ppm GUM
Fluke 5720A/H1 0.9997689 Ω x.xxxxxx Ω ±ppm
Fluke 5720A/H2 0.9997689 Ω x.xxxxxx Ω ±ppm
NLab MI 4310AF 0.99999545 Ω ±0.3ppm PREFEST MFG: 0.99999883 7.JAN.2009
NLab MI 4310AFb 0.99999545 Ω ±0.3ppm MFG: 0.99999883 7.JAN.2009

0.1 Ω DCC

Guildline 9290 26143 0.01001164 Ω
NLab MI 4310AF 0.1 Ω
MM L&N 4221 1709571 0.0999967641 Ω ±0.32ppm GUM
L&N 4221-B 1709571 0.1 Ω
L&N 4221 1554760 0.1 Ω
NLab MI 4310AF 0.1 Ω
NLab MI 4310AFb 0.1 Ω

0.01 Ω DCC

L&N 4222-B 1627368 0.01 Ω
L&N 4222 1591015 0.01 Ω
Biddle 601235 1591015 0.01 Ω

Pre-CF data | June-September 2021 | October 2021 CALFEST | Nov-December 2021 | January 2022 | February 2022 | March 2022 | April 2022 | May 2022 CALFEST3 | Summer 2022 (June-August) | Autumn 2022 (September-October) | Winter 2022

Time scale