

1689-9604 Calibration Kit

Calibration Kit For the 1659, 1689, 1692, 1693 Digibridges

A self-contained calibration kit used to calibrate the Digibridges Plugs into the built-in test fixtures or remote fixtures. Consists of four resistors, a precision open and precision short. An 17025 Accredited calibration chart is provided with R & Q values for each resistor.



Specifications

Nominal Values: R1: 95.3 k Ω ; R2: 5.97 k Ω , R3 374 Ω , 24.9 Ω

Accuracy: 0.1% of nominal value

Stability: Better than 25 ppm per year

Temperature Coefficient 2°C ppm

Calibration Accuracy: These resistors are compared with a precision of 5 ppm to working standards whose absolute values are known to 10 ppm, as determined from reference standards whose absolute values are known to 10 ppm, as determined from reference standards periodically measured by NIST. The 1 kHz Q values are in parts-per million and are based on the D values of GenRad 1404 capacitors which have been shown to be less than 5 ppm, and the assumption that the difference between the inductance of a low -valued composition resistor and a wire of the same geometry is negligible. These Q values should be within 25 ppm at 1 KHz. All calibrations are made at 23° ± 2 C°.

Additional traceability paths:

NPL Data

NPL in the UK has calibrated these resistors and found the following differences well within the allowable 15 ppm specification

Nom Ω	NPL dc	NPL 1 kHz	Diff ppm
24.9	24.899438	24.899574	5.46
375	375.05736	375.06025	7.71
5967	5.967131	5.96709	-6.87
95000	95.0036	95.00359	-0.11

Ordering Information

1689-9604 Digibridge Calibration Kit	1689-CalKit/Case	Hard Transportable Housing To Resistors
Includes:	Test Data	ISO-17025 Accredited Calibration of 1 kHz calibration of the resistors with Q values
1693-Cal/24.9	24.9 Ohm Resistor	
1693-Cal/374	374 Ohm Resistor	
1693-Cal/5.97k	5.97 Killohm Resistor	
1693-Cal/95.3k	95.3 Killohm Resistor	
1693-Cal/Open	Precision Open	
1693-Cal/Short	Precision Short	

