

International Feeding Bridge



APPLICATION

The international feeding bridge SFB 1050 is a very flexible high-quality feeding device for analogue telephone measurements. It can be used as a manually operated single device or remote controlled via IEEE 488 interface in integrated systems.

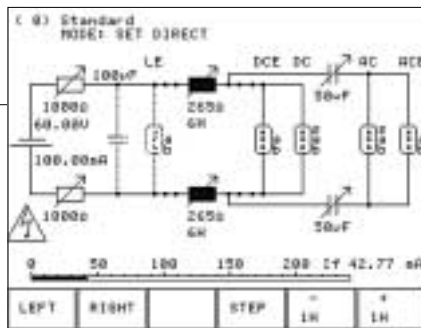
DESCRIPTION

Characteristics of SFB 1050 • Voltage source with adjustable current limitation

- Current source with adjustable Voltage limitation
- Programmable capacitors Cf, Cs and feeding coils
- External feeding mode
- External adaptation of L, Rf and C

Measurements

The measurement results of the SFB 1050 for Return loss and Insertion loss are according to different regulations (e.g. TBR 38 or EG 201 121/DE-17).



KEY FEATURES

- **Highly accurate and flexible feeding bridge**
- **Feeding conditions according to all international standards**
- **Comprehensive user interface with graphical menu and function keys**
- **Configuration shown on large LC Display**
- **Memory for user definable feeding configurations**
- **Operating: Direct and via IEEE 488**
- **Programmable dropping resistor, capacitor set and inductor set**

TECHNICAL SPECIFICATIONS

U-source with adjustable current limitation

Setting range	0-204.75 mA	0-204.75 V
Step size	0.05 mA	0.05 V
Accuracy	± 0.5 %	± 0.5 %

I-source with adjustable voltage limitation

Setting range	0-204.75 mA	1-204.75 V
Step size	0.05 mA	0.05 V
Accuracy	± 0.5 %	± 0.5 %

Dropping resistor set Rd

Setting range	0-12795 Ω	0-12795 Ω
Step size	5 Ω	5 Ω
Accuracy	$\pm 0.5 \%$	$\pm 0.5 \%$

Programmable capacitor set Cf

Setting range	0-100 μF	0-100 μF
Step size	1 μF	1 μF
Accuracy	$\pm 5 \%$	$\pm 10 \%$

SFB 1050 is available in two different tolerance versions for C_f .

Programmable inductor set

Setting range	0-16 H
Step size	1 H
Accuracy	$\pm 10 \%$
dc resistance	8.5 $\Omega/\text{H} \pm 10 \%$

Loop current measurement

Range	0-24 mA	0-240 mA
Resolution	0.01 mA	0.01 mA
Accuracy	$\pm 1 \%$	$\pm 1 \%$
	± 1 digit	± 1 digit

Switchable charging capacitor Cs

Value	100 μF
Tolerance	$\pm 20 \%$

Complementary resistors R_j in line a/b

Setting range	0-797.5 Ω
Step size	2.5 Ω
Accuracy	$\pm 0.5 \%$

Rear Panel

Connector for AC output and DC output
 Connector for external dropping resistors R_d
 Connector for external power supply
 Connector for external capacitors C_f
 Connector for external feeding inductance L

Front Panel

Graphical LC Display (320 x 240 pixels)
 Contrast adjustment for LCD
 Six function keys
 Connector for AC output and DC output

IEEE 488 Interface

Options

19" rack mount kit
 Capacitor UK 2 x 400 $\mu\text{F} \pm 0.01 \%$

Dimensions

450 mm x 130 mm x 420 mm (wxhxd)
 19" 4 HU, standard cabinet

Main power supply

115/230 V AC (60/50 Hz)

Service and warranty

One-year warranty
 Extended product service and support agreements can be provided on request.

Customized versions can be provided on request.

