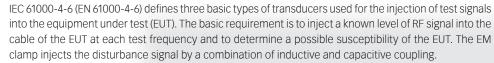




- As specified in IEC 61000-4-6 (incl. edition 4 and EN 61000-4-6:2014)
- Very efficient coupling
- Can be used on almost any cable
- Ruggedly designed
- Improved locking system



The normative Annex A of IEC/EN 61000-4-6 specifies the EM clamp and provides additional information regarding the clamp characterization. The KEMZ 801B complies to the standard.

The adapter kit CAL 801A, which allows test level setting and correction factor measurement, is offered optionally. The calibration fixture CAL KEMZ is made for the S-parameter measurements as defined in Annex A of IEC/EN 61000-4-6 edition 4.



Frequency range:	10 kHz to 1000 MHz
Nominal impedance:	50 Ω
Connector:	N-type female
Maximum input level	
0.01 to 100 MHz:	100 W for 15 min
100 to 230 MHz:	100 W for 3 min
230 to 1000 MHz:	50 W for 3 min
Correction factor 0.15 to 300 MHz:	≥ -4 dB/≤ 4 dB (see graph)
Clamp opening diameter:	approx. 21 mm
Maximum cable diameter:	20 mm
Dimension (LxWxH):	647 mm x 130 mm x 105 mm
Height of ferrite center above ground:	50 mm
Distance to the reference point (first ferrite):	approx. 22 mm
Weight:	approx. 7 kg



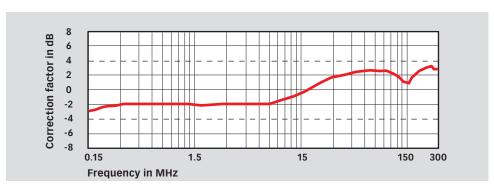
CAL 801A adapter unit for KEMZ 801B (required for stress level setting)



CAL KEMZ calibration fixture for KEMZ/KEMA impedance and decoupling measurements



Typical correction factor (- - Teseq limit)





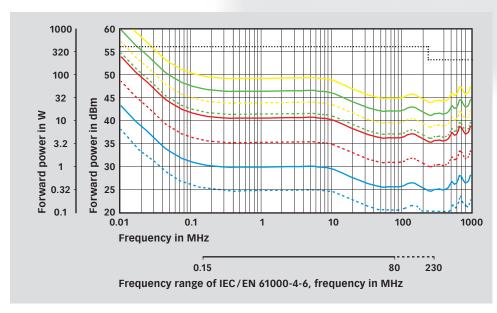
Power requirements in accordance with IEC/EN 61000-4-6

(6 dB attenuator, 0.5 dB cable loss, typical insertion loss of KEMZ 801B)

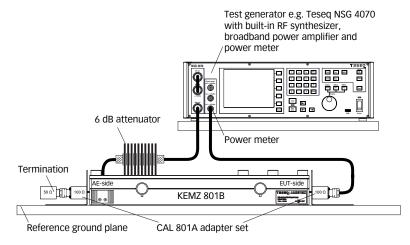
- --- 3 V EMF without modulation (stress level setting), 3 V EMF with AM 80%,
- --- 10 V EMF without modulation (stress level setting), 10 V EMF with AM 80%,
- --- 20 V EMF without modulation (stress level setting), 20 V EMF with AM 80%
- --- 30 V EMF without modulation (stress level setting), 30 V EMF with AM 80%
- ····· Max. forward power on the 6 dB attenuator input



KEMZ 801B, view to the ferrite cores

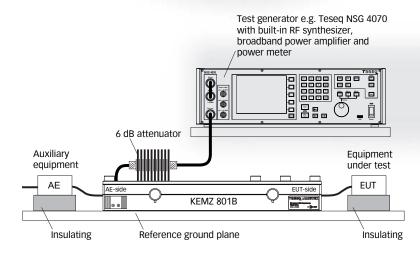


Test set-up calibration according IEC/EN 61000-4-6 with EM clamp

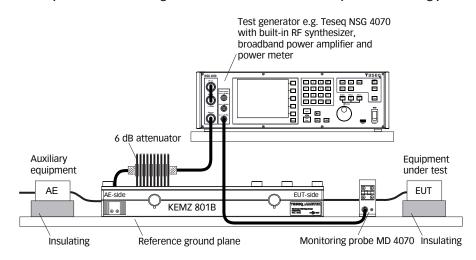




Test set-up with EUT according IEC/EN 61000-4-6 with EM clamp



Test set-up with EUT according IEC/EN 61000-4-6 with EM clamp and monitoring probe

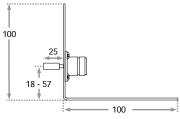




100 50 21-52 100 Ω

all dimensions in mm

Dimensions of the 150 Ω to 50 Ω adapter (part of CAL 801A), side view



all dimensions in mm

Dimensions of the impedance measuring adapter (part of CAL KEMZ), side view

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82-255190 E01 January 2022

Technical specifications of CAL 801A

Dime	ensions:	see drawing
Built-	-in resistor:	100 Ω
Maxi	imum length of the clamp:	670 mm
Conr	nectors on the clamp side:	4 mm banana
RF co	onnector:	N-type female
Weig	ght:	approx. 640 g

Technical specification of CAL KEMZ

Dimensions:	see drawing
Connectors on the clamp side:	4 mm banana
Metal rod diameter:	4 mm
RF connector:	N-type female
Weight:	approx. 680 g

Model no. and options

Part number	Description
255190	KEMZ 801B
	EM Clamp according IEC 61000-4-6
255193	KEMZ 801BS50
	EM Clamp according IEC 61000-4-6, with calibration unit CAL 801A,
	$50~\Omega$ N type 1 Watt termination and adapter BNC(f) to N(m)
97-235501	KEMZ 801-TC
	Traceable calibration (ISO 17025), order only with the device
	KEMZ 801B or KEMZ 801BS50
98-255190	Accredited calibration (ISO 17025) KEMZ 801B
98-255193	Accredited calibration (ISO 17025) KEMZ 801BS50 (incl. CAL 801A +
	50 Ohm)
255101	CAL 801A
	Calibration unit for KEMZ 801B, level setting and correction factor
97-255101	CAL 801A-TC
	Traceable calibration (ISO 17025), order only with the device
98-255101	CAL 801A-DAkkS
	Accredited calibration (ISO 17025), order only with the device
255104	CAL KEMZ
	Calibration fixture for KEMZ/KEMA, impedance and decoupling



