



# DX4095 Z-Meter Mini

AC Resistance (ACR) Measurement  
Figure-of-Merit (Z) Measurement  
Time Constant ( $\tau$ ) Measurement  
dTmax estimations (for single-stage TECs)

USB Interface  
for power and  
communication

Compact size  
USB-stick like  
Fits any pocket

Solid Metal Housing

LEMO Connector  
for external Clips

Portable design  
Measuring Current in a range 0...80 mA  
Measurement at direct and reversed current  
Results normalization to ambient temperatures  
Correction coefficients to Z value  
Low power consumption

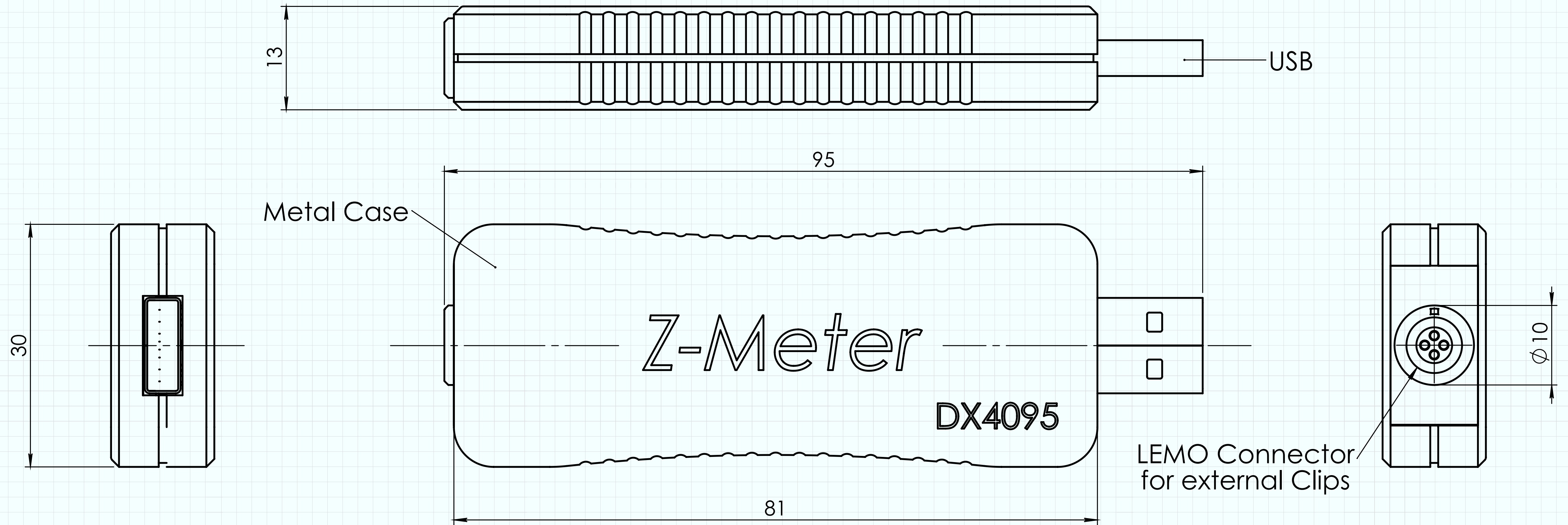
20mm





# DX4095 Z-Meter Mini

# Dimensions (mm)





# DX4095 Z-Meter Mini

# Specifications

DX4095 Z-METER MINI SPECIFICATIONS		
Connection to PC		Required
PC Connection Interface		USB type A
Z-Meter Software		Included. Windows version only
Measurement Interface		Internal in Chamber or External with Clips
Measurement Scheme		4-wires method
Ambient Temp. Sensor		Available, integrated
TEC Polarity Check		N/A
Typical TEC Testing Time	sec	20 .. 180 (depending on TEC size)
TEC AC RESISTANCE MEASUREMENTS ( ACR )		
Range	Ohm	0.1 .. 100
Accuracy	%	0.6 (but >0.01Ohm)
Repeatability	%	0.3
FIGURE-OF-MERIT MEASUREMENTS ( Z )		
Range	10E-3/K	1 .. 4
Accuracy	%	1.5
Repeatability	%	0.4
TEC TIME CONSTANT		
Range	sec	1 .. 100
Accuracy	%	1.5
Repeatability	%	1

OPERATING CONDITIONS		
Ambient Temperature	°C	15 .. 35
Humidity	%	0 .. 95
DX4095 POWER SUPPLY		
External Power Adapter		NOT REQUIRED
Voltage	V	5.0 (from PC USB port)
Current	mA	250
DIMENSIONS AND WEIGHT		
Z-Meter Mini	mm	95 x 30 x 13
Z-Meter Weight	g	20
STANDARD DX4095 KIT		
Z-Meter Mini	1pcs	Can be connected directly into USB port on PC
USB AM-AF	1pcs	Extension cable for Z-Meter to PC connection
External Clips	1pcs	External Kelvin Clips (4-wires scheme)
Z-Meter Software		MS Windows version only
OPTIONAL ACCESSORIES (ORDERED SEPARATELY)		
BNC Adapter		Allows to use BNC tools with Z-Meter
Customized WB Clips		Required for WB TECs measuring process