

Clipper Measurement Probe

Features:

- Passive test system for Power Transistors
- Input Voltages up to 1500V
- 2 Ranges for sensitivity selection (Hi and Lo)
- Switching times <80ns (lo range)
- Passive System - no power supply needed
- >98% Voltage transfer from Input to Output
- No Calibration required

Applications:

- MOSFET RdsON measurement
- Junction Temperature Measurement
- Diode Forward Recovery Measurement
- SiC Diode Junction Temperature
- Production measurement of thermal interface
- Chip SOA sensing
- Switching performance measurement

Product Summary		
Vin Max	1500	V
Load	350	µA



ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Conditions	Value	Unit
Input Voltage	V _{in amax}	T _a = 25 °C	1700	V
	V _{in amin}	T _a = 25 °C ⁽²⁾	-3.0	V
Power Dissipation	P _D	T _a = 25 °C	<120	mW
Operating Temperature	T _{OP}	Laboratory ⁽¹⁾	10 to 35	°C
Storage Temperature	T _{STG}		-5 to +85	°C

⁽¹⁾ For use in a thermal chamber, please contact us.

⁽²⁾ Damage is caused to the device by I²Rt effects, and not by reverse voltage. Short time spikes of -10V will not cause a problem. Exact durations have not yet been characterized.



Probe Version 1

Clipper

clp1500V15A1

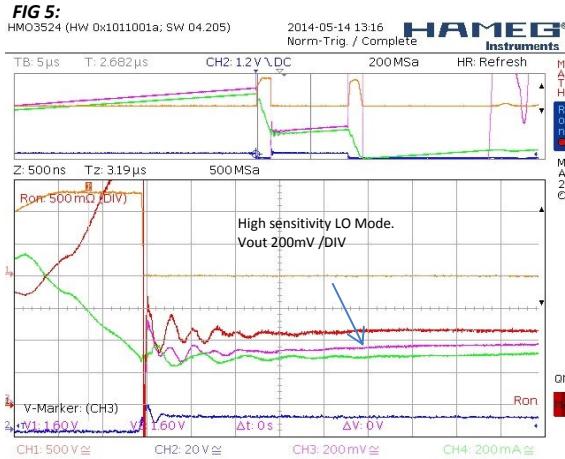


Fig3: Hi Mode, Vin 1300V, RdsON 1.1Ω

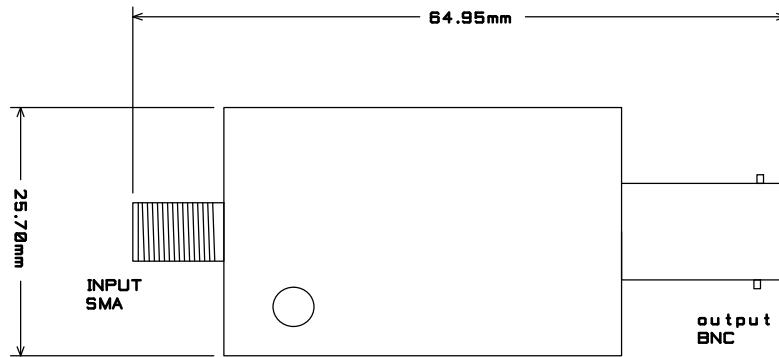
Fig4: Hi Mode, Vin 1300V, pulse OFF showing RdsON before and after.

Fig5: Lo Mode, Vin 1300V, RdsON 1.1Ω
High Sensitivity: Vout = 200mV/Div

Fig6: Hi Mode, Vin 1300V, showing settling time 50ns.

Mechanical Dimensions

Symbol	Dim mm
A	25.70
B	64.95
C	18



Case made of ABS Plastic !



Aluminium Transport Case contains:

- 1 x Clipper
- 2 x SMA-SMA Adapter
- 1 x SMA-BNC Adapter (male)
- 1 x SMA-BNC Adapter (female)
- 4 x SMA sockets
- 1 x Aluminium case with ESD foam

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