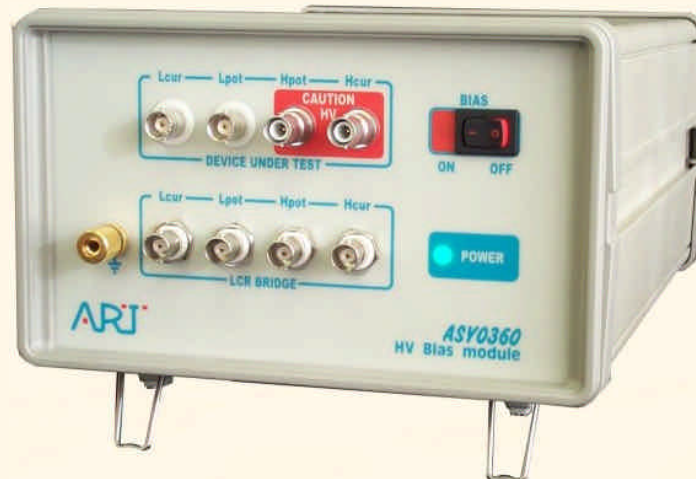


ASY0360 HV Bias Module



The ASY0360 offers capacitor designers, users & manufacturers the ability to apply High-Voltage bias when measuring Capacitor values.



Capacitor value can be seriously altered in the presence of high bias voltages. Measurement of this parameter is becoming increasingly important as higher stress levels are reached within the component ($V/\mu m$) as the size of chip and ceramic capacitors reduce.

Up to 2,100 Volts DC can be applied to the capacitor using a conventional low-voltage capacitance bridge and High-Voltage power supply, to quickly and accurately measure Capacitance value under real world conditions.

Key features:

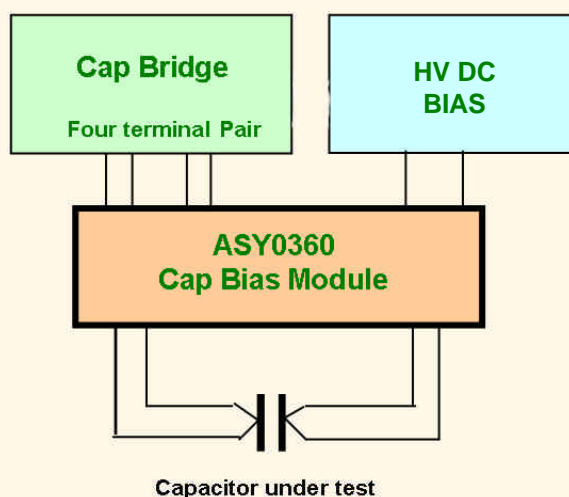
- Capacitance with DC Bias to 2,100 V DC
- Isolates bridge from bias voltage
- Allows existing Cap bridges to be used
- Use with existing HV DC PSU
- Compact, Portable Instrument.

Description:

ASY0360 High Voltage Capacitance Bias Module is a portable instrument, enabling capacitor values to be conveniently measured over a wide range of applied DC voltages, similar to those which a capacitor may be subjected to during its' lifetime.

The module isolates the bridge from high-voltages and allows existing Capacitance bridges to be used to measure Capacitance value accurately in the present of high voltage DC voltages.

A four-wire measurement connection is maintained throughout from the bridge to the Capacitor.



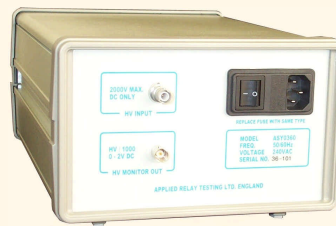
Operation:

The ASY0360 can be quickly set up to measure capacitor values using an existing Capacitance Bridge and HV power supply.

A standard four terminal pair connection is provided for the Capacitance Bridge and a single pair connection for the power supply

A four wire pair connection is maintained through to the capacitor under test.

Capacitance measurements are made with the bridge in the normal way, after the applied DC voltage level has been set.



Specifications:

Electrical Parameters	Min	Max	Typical ³ Resolution	Typical ³ Accuracy
DC Bias Voltage Range ²	1V DC	2100V DC	1V DC	+/- 2% +/- 0.2V
Capacitance Range - Typical				
Capacitance Measure Range (0v Bias) ¹	1pF	0.1µF	1pF	+/- 2% +/- 2pF
Capacitance Measure Range (0v Bias) ¹	0.1µF	6.0µF	1pF	+/- 2.5%
Capacitance Measure Range (DC Bias enabled) ^{1,2}	1pF	0.1µF	1pF	+/- 3% +/- 12pF
Capacitance Measure Range (DC Bias enabled) ^{1,2}	0.1µF	6.0µF	1pF	+/- 3.5%
Capacitance Measure Voltage 1KHz ¹	0.1V RMS	3V RMS	0.1V RMS	-
Electrical	Component	Bridge	HV PSU	
Component Interface	4 wire	4 wire	2 wire	
Physical				
Size	(H) 120 mm	(W) 160 mm	(D) 250 mm	Weight 3.5 Kg
Supply Voltage	110VAC - 240VAC (50/60Hz)			
Notes:				
1. Require user supplied Capacitance bridge				
2. Requires user supplied high voltage DC supply				
3. Actual values dependent on user supplied instruments				

For further details contact:

Applied Relay Testing Ltd

Tel: +44 (1202) 892777

Fax: +44 (1202) 894268

Email: sales@appliedrelaytesting.co.uk

Web: www.appliedrelaytesting.co.uk

Ordering Information

Order Code: ASY0360

Customers must provide details of the Capacitance Bridge & High-Voltage programmable PSU to be used with the instrument

A verification charge may be required for ART to set-up and confirm the bridge & PSU operation with the user instruments