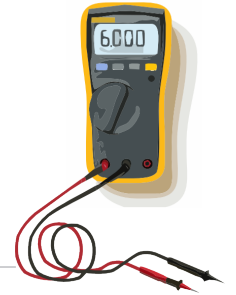
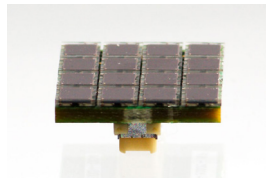


SiPM Diode Check

REQUIRED

- SensL SiPM Sensor
- Digital Multimeter



PROCEDURE

Place the sensor sensitive-side down so that the pins or connectors are showing.

Set the multimeter to the 'diode check' setting.

Using the package schematics shown below in Fig. 1-3, put the **black** multimeter lead to the pin labelled 'A'.

Put the **red** lead to the pin labelled 'B'.

This will either give a reading showing that there is a diode present (~0.64V) or will give a high or open reading. Reversing the leads (**red** to pin A, **black** to pin B) will give the opposite reading.

Multimeter lead connection	B-Series	M-Series
Pin A - Red Pin B - Black	Diode present (~0.64V)	High or open
Pin A - Black Pin B - Red	High or open	Diode present (~0.64V)

Refer to the table on the right to determine which series the device is from.

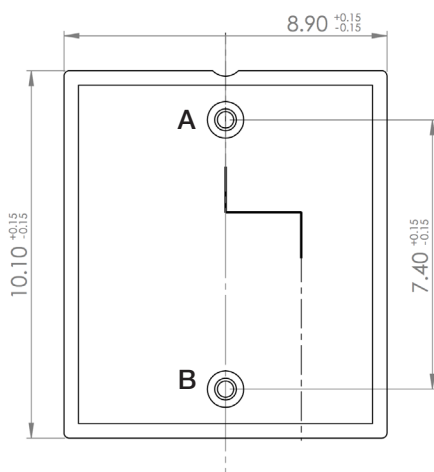


Fig. 1: MicroSX-600XX-X13 package

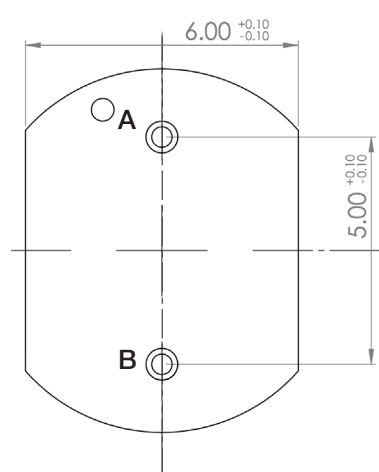


Fig. 2: MicroSX-X0XXX-X13 package

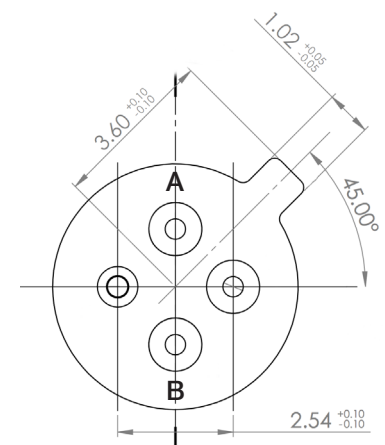


Fig. 3: MicroFX-10XXX-X18 package

PROCEDURE FOR ARRAY-SMT PRODUCTS

Place Array-SMT sensitive-side down so that the connector is showing. Position the array so that the writing is right way up. Fig.4 shows this for the ArrayFX-300XX-16P as an example.

Set the multimeter to the 'diode check' setting.

Using the connector pin-out schematic found in the [Array-SMT User Manual](#) (Fig.5 shows the ArrayFX-300XX-16P as an example), put the **black** multimeter lead to one of the common (COM) pins.

Put the **red** lead to any of the standard output pins (S1 – Sn) as per the pin out schematic (pins 3, 5, 7, 9, 11, 13, 15, 17, 24, 26, 28, 30, 32, 34, 36 & 38 in Fig. 5).

This will either give a reading showing that there is a diode present (~0.64V) or will give a high or open reading. Reversing the leads (**red** to a COM, **black** to a Sn) will give the opposite reading.

Refer to the table on the right to determine which series the device is from.

Multimeter lead connection	B-Series	M-Series
Std. o/p pin - Red COM pin - Black	Diode present (~0.64V)	high or open
Std. o/p pin - Black COM pin - Red	high or open	Diode present (~0.64V)

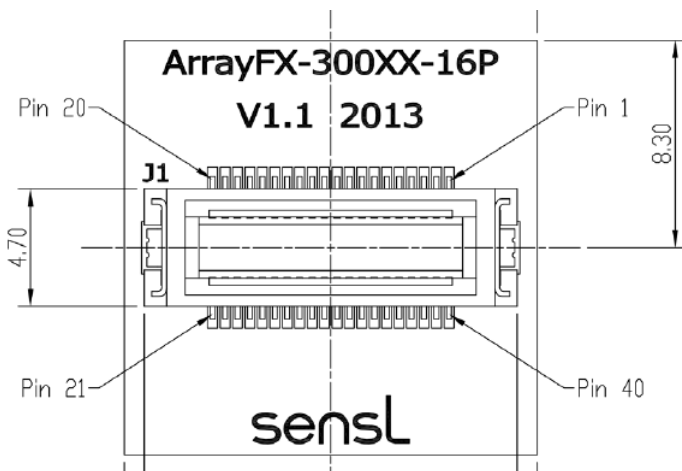


Fig.4: correct orientation of ArrayFX-300XX-16P



Fig.5: Pin-out schematic of ArrayFX-300XX-16P connector