ON Semiconductor®

MICROFJ-SMA-30020-GEVB: MicroFJ-30020-TSV mounted onto a PCB with three SMA connectors (No active electronics)

The MicroFJ-SMA is a printed circuit board (PCB) that can facilitate the evaluation of the J-Series sensors. The board has three female SMA connectors for connecting the bias voltage, the standard output from the anode and the fast output signal. The output signals can be connected directly to a 50W-terminated oscilloscope for viewing. The biasing and output signal tracks are laid out in such a way as to preserve the fast timing characteristics of the sensor.
The MicroFJ-SMA is recommended for users who require a plug-and-play set-up to quickly evaluate J-Series TSV sensors with optimum timing performance. The board also allows the standard output from the anode to be observed at the same time as the fast output. The outputs can be connected directly to the oscilloscope or measurement device, but external preamplification may be required to boost the signal. The table below lists the SMA board connections. The SMA board electrical schematics are available to download in the TSV Board Reference Design document.

Output: Function:
Vbias Positive bias input (cathode)
Fout Fast output
Sout Standard ouput (anode)

Evaluation/Development Tool Information

Product	Status	Compliance	Short Description	Parts Used
MICROFJ-SMA-30020-GEVB	Active		MicroFJ-30020-TSV mounted onto a PCB with three SMA connectors (No active electronics)	MICROFJ-30020-TSV-TR , MICROFJ-30020-TSV-TR1