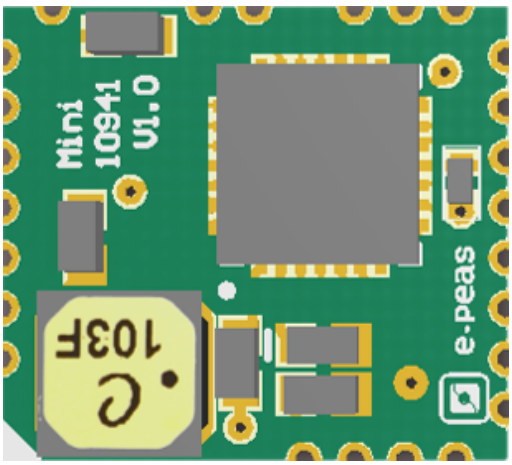
Miniboard for the AEM10941

Description

The AEM10941 miniboard is a printed circuit board (PCB) featuring all needed components to put in operation the AEM10941 integrated circuit. Please refer to the datasheet for all useful details about the AEM10941 (Document DS_AEM10941).

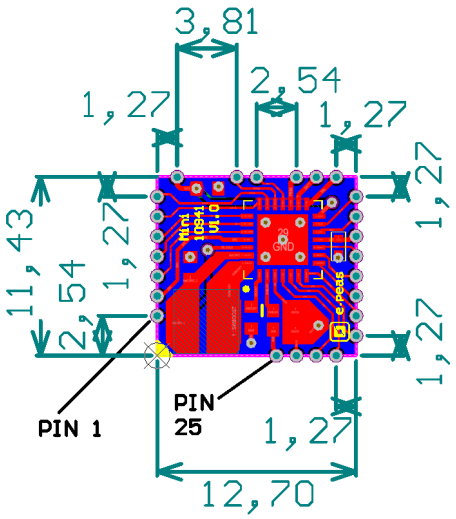


Device information

Part number	Dimensions
2BAEM10941C0010	11.43 mm x 12.70 mm

Layout information

Pitch between output vias = 2.54 mm
Output hole diameter = 0.7 mm



Pinout

PIN	NAME	FUNCTION	PIN	NAME	FUNCTION
1	FB_COLD	Configuration of the cold start (optional).	14	FB_HV	Configuration of the high-voltage LDO in the custom mode (optional).
2	SRC	Connection to the harvested energy source.	15	ENHV	Enabling pin for the high-voltage LDO.
3	SET_OVDIS	Used for the configuration of the threshold voltages for the energy storage element and the output voltage of the LDOs	16	LVOUT	Output of the low-voltage LDO regulator.
4	SET_CHRDY		17	FB_PRIM_U	Configuration of the primary battery (optional).
5	SET_OVCH		18	FB_PRIM_D	
6	STATUS[0]	Logic output.	19	SELMPP[0]	Configuration of the MPP ratio.
7	STATUS[1]	Logic output.	20	SELMPP[1]	
8	HVOUT	Output of the high voltage LDO regulator.	21	CFG[0]	Configuration of the threshold voltages for the energy storage element
9	STATUS[2]	Logic output.	22	CFG[1]	
10	ENLV	Enabling pin for the low-voltage LDO.	23	CFG[2]	
11	PRIM	Connection to the primary battery (optional).	24	BUCK	Output of the buck converter.
12	BATT	Connection to the storage element.	25	GND	Ground connection.
13	BAL	Connection to mid-point of a dual cell supercapacitor (optional).			

Table 1: Pins description

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