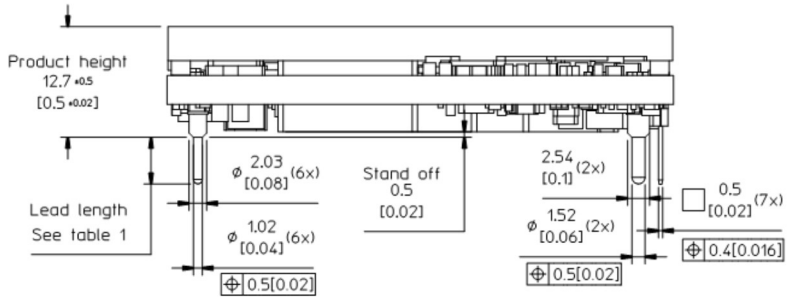
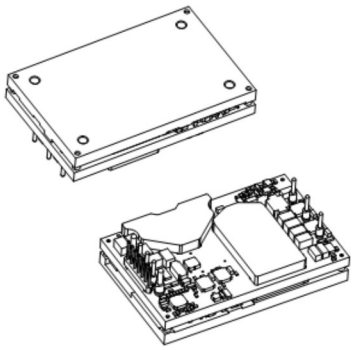
Part 3: Mechanical information

BMR684 : baseplate version

The mechanical information is based on a module which is hole mounted and has a baseplate.





TOP VIEW
Pin positon refer footprint recommendation

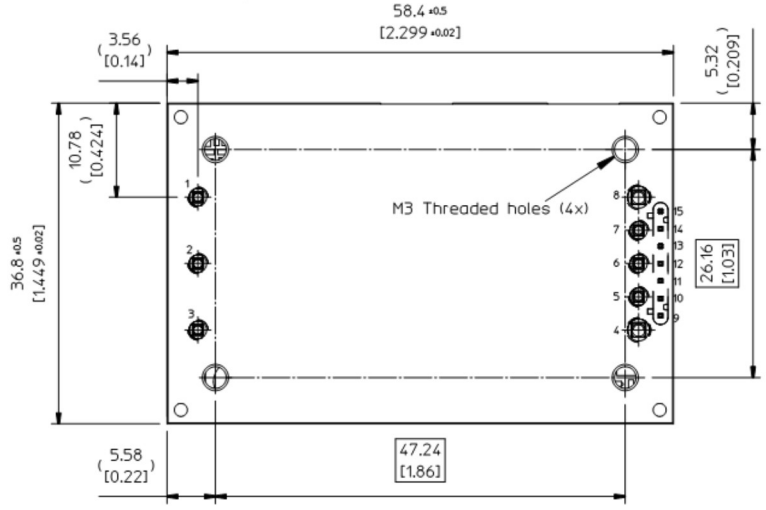


Table 1

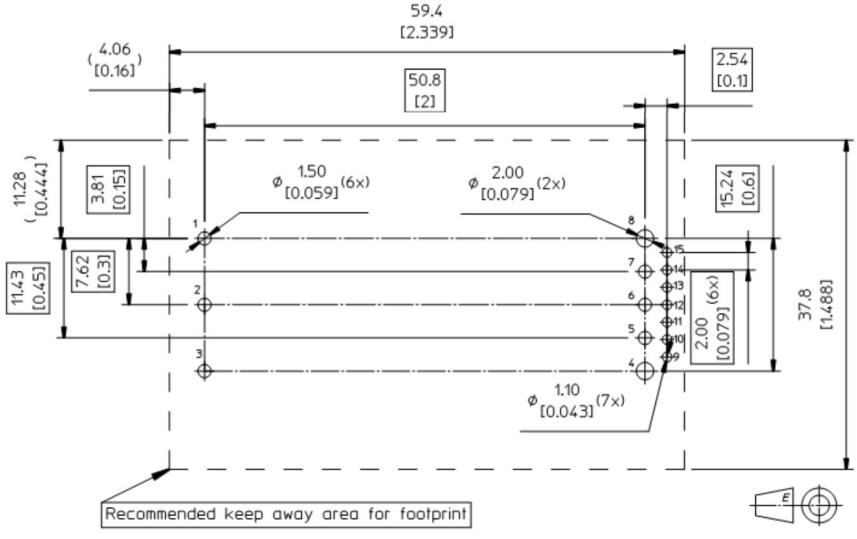
Option	Lead length
1	5.33 [0.210]
2	3.69 [0.145]

PIN SPECIFICATIONS
Pin 1-15 Material: Copper alloy
Plating: Min 0.1 µm Au over 1-3 µm Ni.

CASE
Material: Aluminium
For screw attached apply mounting torque of max 0.44 Nm [3.9lbf].
M3 screws must not protrude more than 3.4 mm [0.134] into the baseplate.

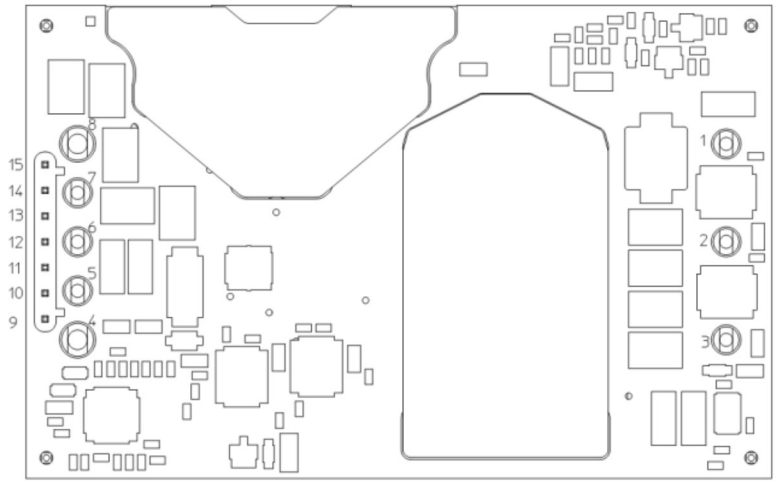
Recommended hole dimensions are only for reference. It is the end users decision based on different situations like production processes, substrate thickness etc.

Recommended footprint - TOP VIEW



Weight: typical 82 g
All dimensions in mm [inch].
Tolerances unless specified
x.x ±0.5 mm [0.02].
x.xx ±0.25 mm [0.01]
(not applied on footprint or typical values)

Connections for BMR684 1100/001



Pin layout, bottom view

Pin	Designation	Type (Power, Input, Output)	Description
1	+In	Power	Positive input
2	RC	I	Remote control
3	-In	Power	Negative input
4	-Out	Power	Negative output
5	-Sense	I	Remote sense negative
6	Vadj	I	Output voltage adjust
7	+Sense	I	Remote sense positive
8	+Out	Power	Positive output
9	PG	O	Power good
10	DGND	Power	PMBus ground
11	SDA	I/O	PMBus data
12	SALERT	O	PMBus alert
13	SCL	I/O	PMBus clock
14	SA1	I	PMBus address 1
15	SA0	I	PMBus address 0