

New Release

LTEC Corporation

Your most experienced partner in IP protection

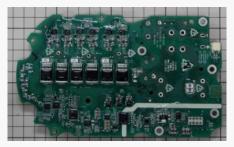
Compressor: Xiaomi SU7 Teardown Report



Xiaomi SU7(from Web info)
https://hu.motor1.com/news/703064/xi
aomi-su7-onallo-parkolas-video/



Overview of Compressor



PCB

Overview

Xiaomi, the Chinese electrical appliance maker announced its first battery electric vehicle (BEV) Xiaomi SU7 in March 2024.

Compressors installed in electric vehicles are designed on the assumption that they are driven by a high-voltage on-board main battery. The performance of electric compressor is used not only in cars but also to cool automotive devices and batteries. This unit is indispensable for driving range, charging time, and battery life extension for EV.

This is a teardown report of the compressor made by ZINSIGHT in Xiaomi SU7 MAX.

Product features

- Manufactured by ZINSIGHT Technology
- SiC based unit with compressor-control PCB

Report Contents (17 pages)

- Product teardown, parts measurement (size & weight)
- Identification of key ICs on the PCB (including datasheet, if we found).

Report price

Delivery one week after order placement Please contact us for report pricing



Phone: +1-(650) 382-1181 Contact2@ltec.biz

Table of Contents

			Page
<u>Summary</u>			
Table 1	Product information		3
<u>Product Teardown</u>			
	Product Overview		4
	Installation Status 【Back Cover】		5
	Installation Status 【Gasket】		6
	Installation Status 【Control PCB】		7
	Installation Status 【Connector 1】		8
	Installation Status 【Connector 2】		9
	Installation Status 【Bus-Bar 1】		10
	Installation Status 【Bus-Bar 2】		11
	Installation Status 【Rubber Seal】	•••	12
<u>Overview</u>			
Fig. 1-1	Control PCB Overview		13
Fig. 1-2	Identification of Key ICs Identification of Key ICs (manufacture, function, etc.) on Control PCB (Top View)		14
Fig. 1-3	Identification of Key ICs Identification of Key ICs (manufacture, function, etc.) on Control PCB (Bottom View)		15
Fig. 1-4	Moisture-Proofed Area of Control PCB		16
<u>Connection</u>			
Fig. 2-1	Connection Diagram (Control Path)		17



Phone: +1-(650) 382-1181 Contact2@ltec.biz

> Report No : 24G-0143-1 Release day : 2024.08.09