

## (19) United States

## (12) Patent Application Publication (10) Pub. No.: US 2023/0230751 A1 KIM et al.

Jul. 20, 2023 (43) **Pub. Date:** 

(54) COIL COMPONENT

(71) Applicant: SAMSUNG

ELECTRO-MECHANICS CO., LTD.,

Suwon-si (KR)

Inventors: Mi Geum KIM, Suwon-si (KR); Jae

Hun KIM, Suwon-si (KR)

Assignee: SAMSUNG

ELECTRO-MECHANICS CO., LTD.,

Suwon-si (KR)

Appl. No.: 17/991,177 (21)

(22)Filed: Nov. 21, 2022

(30)Foreign Application Priority Data

(KR) ...... 10-2022-0008473

## **Publication Classification**

(51) Int. Cl.

H01F 27/29

(2006.01)

H01F 27/32 (2006.01) (52) U.S. Cl. CPC ...... *H01F 27/29* (2013.01); *H01F 27/323* (2013.01)

(57)**ABSTRACT** 

A coil component includes: a body including a coil unit disposed therein, and having first and second surfaces opposing each other with lead-out portions of the coil unit extending thereto, respectively, and fifth and sixth surfaces connected to the first and second surfaces and opposing each other; a first external electrode, and including a first connection portion covering the first surface of the body and a first pad portion covering the sixth surface of the body, the first pad portion having a smaller width than the first connection portion; a second external electrode, and including a second connection portion covering the second surface of the body and a second pad portion covering the sixth surface of the body, the second pad portion having a smaller width than the second connection portion; and an insulating layer covering the first and second connection portions.

