

3Dトランスポンダーコイルと4Dコイル

3D transponder coil for PEPS and 4D coil (3D with added functions: NFC or WPT)

PEPS用3Dトランスポンダーコイルと4Dコイル

特長

- 3Dトランスポンダーコイル：小型サイズ 11.5x12.5x3.6mmで高感度
High sensitivity with small dimensions of only 11.5x12.5x3.6mm
- 4Dコイル：4巻線8ピン構造で3D LFコイル + 近距離無線通信（NFC）若しくは無線電力伝送（WPT）対応
8 pins construction with 4 windings: 3D LF coil + near field communication (NFC) or wireless power transfer (WPT)

主要用途

- パッシブエントリー / パッシブスタート (PEPS)
Passive Entry / Passive Start (PEPS)
- 近距離無線通信 (NFC)
Near Field Communication (NFC)
- 全無線電力伝送 (WPT)
Wireless Power Transfer (WPT)

特性

Item name & size	B82453C*A* typical dimensions 11.5 × 12.5 × 3.6 mm
Electrical Characteristics	- 3D coil available for PEPS: 21.8kHz and 125kHz with sensitivity levels up to 83mV/μT - 4D coil (under develop.), 3D +: NFC winding @ 13.56MHz or WPT winding @ 100kHz/~100mAh
Temperature range	-40 to +85 °C
Reliability	AEC-Q200 compliant Heat shock test -40 to +105 °C Humidity test 85°C 85% RH
Mechanical Strength	Drop test (50g test fixture on concrete): 1000 drops x 1m; random orientation.



Molded coil

- Very high mechanical robustness
- Maximum wire protection

Laser welding wire connection

- Wire connection with high reliability
- More than 10 times reflow to fail passed

Special core geometry

- Complex core geometry for best Sensitivity levels
- NFC or WPT winding combined in same core

Best terminal construction:

- 8 pins design allows 4 windings platform
- Large soldering area for best soldering strengths