

1. Part No. Expression:

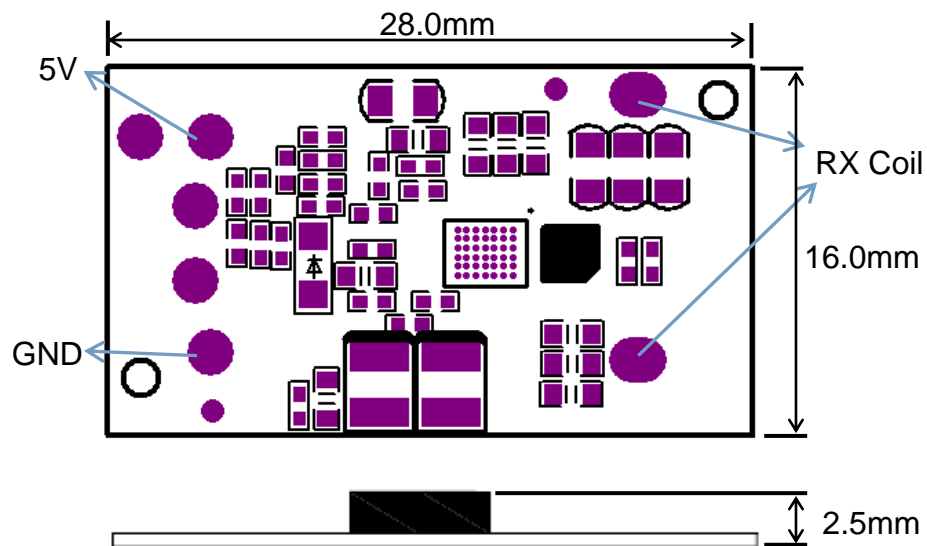
W M R S 2 8 1 6 0 2 0 5

(a) (b)(c) (d) (e)

- a) Series Code
- b) Model Code
- c) Shape Code
- d) Dimension Code
- e) Power Rating Code

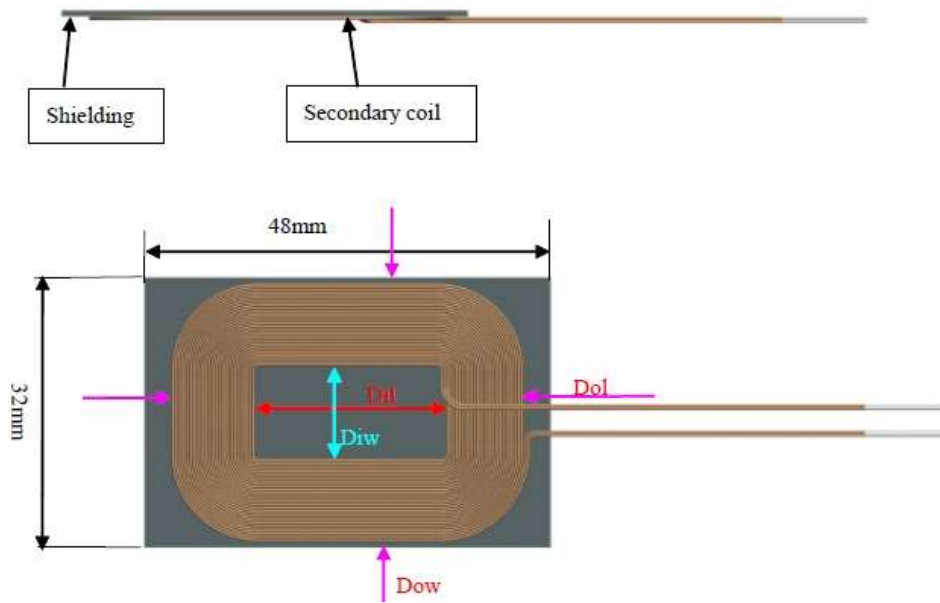
2. Configuration & Dimensions:

- PCB 28 mm x 16 mm x 2.5 mm



NOTE: Specifications subject to change without notice. Please check our website for latest information.

- Coil 48 mm x 32 mm x 0.3 mm



ELECTRICAL SPECIFICATION@25° C

PARAMETERS	UNIT	LIMIT
inductance, LS@100KHz, 1.0V	uH	14.0 ± 10%
DCR	mΩ	220.0Max

Outer Length Dol (mm)	Inner Length Dil (mm)	Outer Width Dow (mm)	Inner Width Diw (mm)	Thickness Dc (mm)
40.5±0.25	23.0±0.25	30.0±0.25	11.0±0.25	0.3±0.25

3. General Specifications:

- a) Operating Temp. : 0°C to +48°C
- b) Storage Temp. : -20°C to +70°C
- c) The device uses TI BQ51020 chip with over load protection feature.
- d) Effective charging area: centre of coil aligned to centre of charging pad.
 - (i) X-direction tolerance: ±5mm
 - (ii) Y-direction tolerance: ±5mm
- e) Compatible to Qi 1.1 requirements.

NOTE: Specifications subject to change without notice. Please check our website for latest information.

4. Electrical Specifications

4.1 Module Specification

Description	Remarks	Min.	Typ.	Max.	Unit
Output Voltage	Load current at 1A		5.0		V
Output Current	Constant Voltage = 5V		1.0		A
Output voltage ripple	Load current at 1A			200	mV
Overload voltage protection	Max. load = 1A			1.2	A
System Efficiency	Load with SWS 5W Transmitter module		70	75	%
System Frequency	Test with SWS 5W Transmitter module	110	152	205	KHz
LED Operating Voltage		0		5.0	V
LED Operating Current		0		15	mA

*SWS – Superworld Electronics (S) Pte Ltd

4.2 Coil Specification

Inductance (uH)	Test Frequency (Hz)	DCR (mΩ)
14±10%	1V/100K	220 Max.

NOTE: Specifications subject to change without notice. Please check our website for latest information.