1. Part No. Expression:

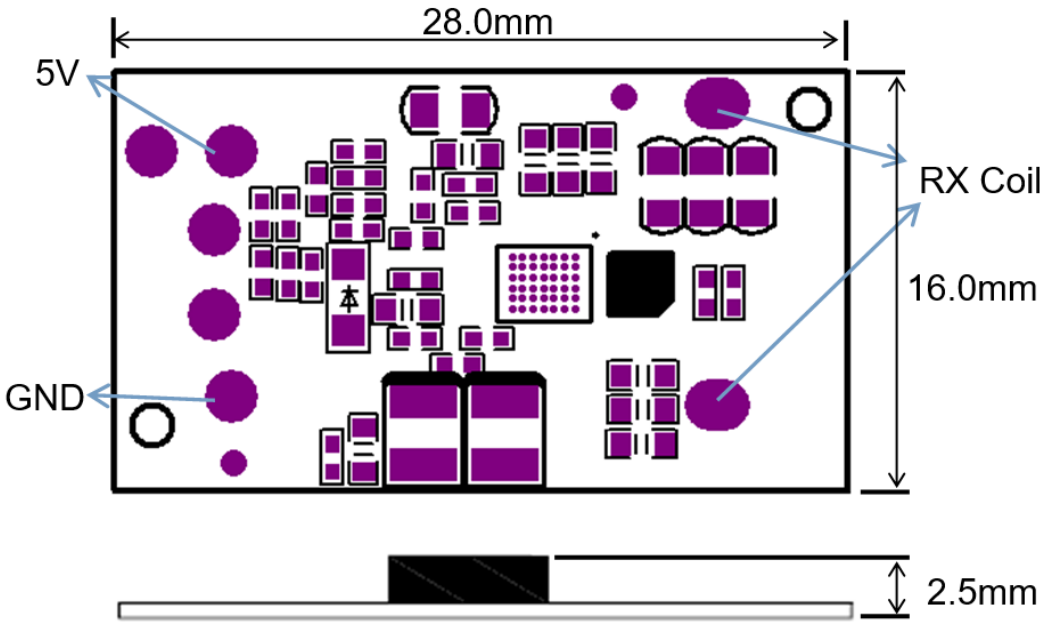
W M R S 2 8 1 6 0 2 0 5

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

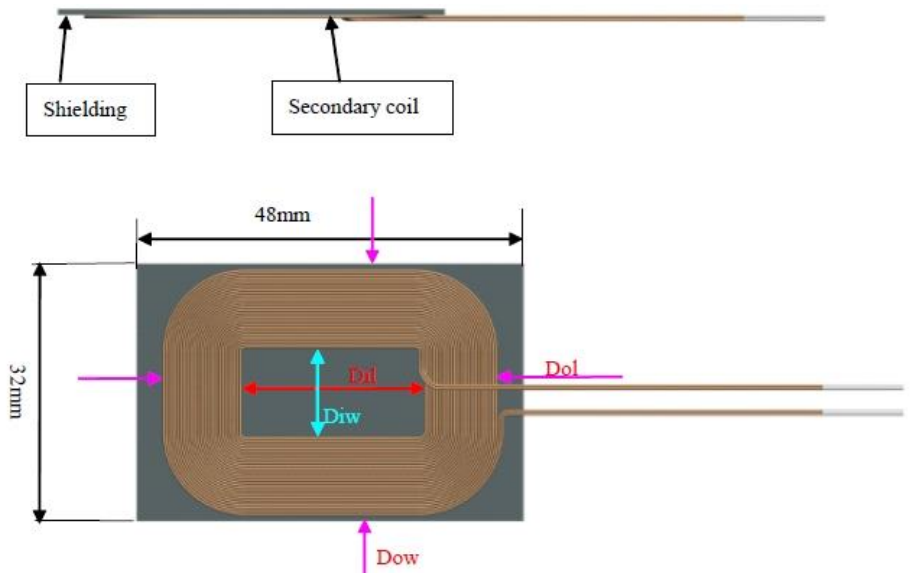
(a) Series Code
(b) Category Code
(c) Dimension Code
(d) Power Rating Code

2. Configuration & Dimensions: (Unit: mm)

2.1 PCB 28 mm x 16 mm x 2.5 mm



2.2 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)
40.50±0.25	23.00±0.25	30.00±0.25	11.00±0.25	0.30±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