![Chipsmall logo]

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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Email & Skype: info@chipsmall.com Web: www.chipsmall.com
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Wireless Power Transfer

Tx (transmitting) coil modules (WPC compliant)

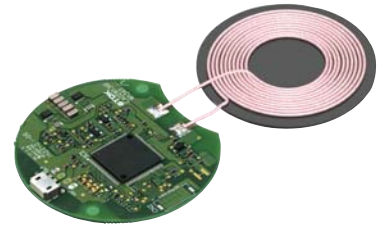# WTM505090-10K2-5V-G1

公TDK

Wireless Power Transfer

Tx (transmitting) coil modules (WPC compliant)

Product compatible with RoHS directive
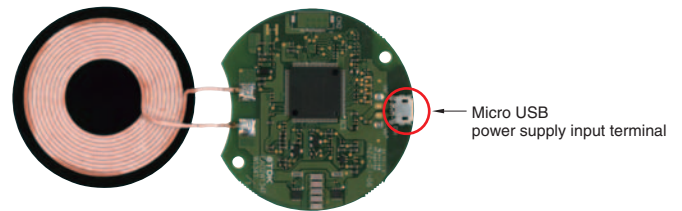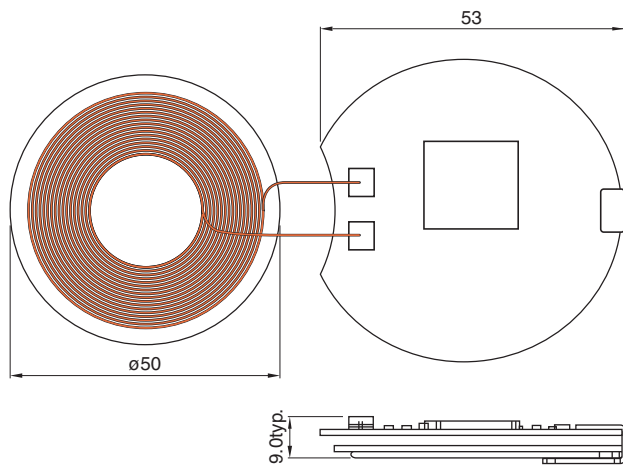**Halogen-free**

Overview of WTM505090-10K2-5V-G1

■ FEATURES

○ This is Tx turnkey solution including transmitter coil
○ Fully WPC compliant, including foreign object detection (FOD) method
○ 5V operation with wireless power consortium (WPC1.1) type A11 transmitter system
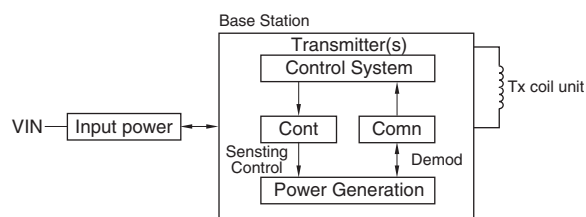○ Pre cracked ferrite is available for durable construction

■ SHAPE & DIMENSIONS

53

ø50

9.0typ.

Micro USB
power supply input terminal

Dimensions in mm

■ BLOCK DIAGRAM

Base Station
Transmitter(s)
Control System
Tx coil unit
VIN → Input power
Cont | Comn
Sensing Control | Demod
Power Generation

■ ELECTRICAL CHARACTERISTICS

□ CHARACTERISTICS SPECIFICATION TABLES

Tx coil units		Tx modules				Part No.
Inductance [100kHz, 1Vrms] (µH)	DC resistance [25°C] (Ω)max.	IC information	Input voltage (V)	WPC compliant	Efficiency (%)	
6.3	0.06	TB6865AFG (Toshiba IC)	4.75 to 5.2	WPC 1.1 Type A11	70	WTM505090-10K2-5V-G1

○ RoHS Directive Compliant Product: See the following for more details.https://product.tdk.com/info/en/environment/rohs/index.html
○ Halogen-free: Indicates that Cl content is less than 900ppm, Br content is less than 900ppm, and that the total Cl and Br content is less than 1500ppm.

⚠ Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use.
Please note that the contents may change without any prior notice due to reasons such as upgrading.

⚠ Reminders

○ Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).

○ Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.

○ Fully caution, if metal piece contacted with top of coil surface then it could be danger of generated heat.

○ Do not use for a purpose outside of the contents regulated in the delivery specifications.

○ The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.

The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.

If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact us.

(1) Aerospace/aviation equipment

(2) Transportation equipment (cars, electric trains, ships, etc.)

(3) Medical equipment

(4) Power-generation control equipment

(5) Atomic energy-related equipment

(6) Seabed equipment

(7) Transportation control equipment

(8) Public information-processing equipment

(9) Military equipment

(10) Electric heating apparatus, burning equipment

(11) Disaster prevention/crime prevention equipment

(12) Safety equipment

(13) Other applications that are not considered general-purpose applications

■CONTACT WINDOWS FOR MORE INFORMATION

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