



## Wireless Power Transfer

**Rx Coil Modules** 

## WRM483265-10F5-12V-G

## Caution

# The products in this catalog will be or have been stopped production

Discontinue Issue Date	May. 11, 2023
Last Purchase Order Date	Sep. 30, 2023
Last Shipment Date	Mar. 31, 2024

Please refer to our Web site about replacement information.



## Wireless Power Transfer Rx Coil Modules









## WRM483265-10F5-12V-G

## **■ FEATURES**

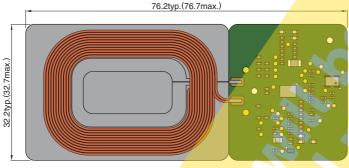
- Turnkey solution for wireless power transfer, including receiver coil with attractor and circuit
- O Support up to 15W (12V x 1.25A) power transfer

#### APPLICATIONS

- O Information and communication products
- O Industrial, medical and other products

#### ■ SHAPE & DIMENSIONS

Top view





Dimensions in mm

## **AIR COIL SPECIFICATIONS**

Number of Coils	Wire Diameters	Coil Turns
1	ø0.30mm (Bifilar)	10 / layer, total 1 layer

Description of icons: See the following for more details. https://product.tdk.com/info/en/environment/icon.html

- All specifications are subject to change without notice.
- Before using these products, be sure to request the delivery specifications.



## WRM483265-10F5-12V-G

## **MAXIMUM RATINGS**

Operating Temperature / Humidity	Storage Temperature / Humidity
–30 to +70°C / 10 to 95% R.H.	-40 to +85°C / 10 to 95% R.H.

## **■ ELECTRICAL CHARACTERISTICS**

Rx Module				
Output Voltage	Current Rating	Output Power	Efficiency	
(V)	(A)	(W)	(%) typ.	
12	1.25	15	75	

Test Environment:

Test Instrument : Chroma 8000 system or EQUIVALENT

Ambient Temperature : 20 to 30 °C Relative Humidity : 25 to 75 %R.H. Tx module : WTM905525-12F2-12V-G Tx & Rx coil distance : 3.4mm

## **■ IC INFORMATIONS**

IC	Manufacturer	,	^ (	
P9221-R	IDT (Integrated Dev	vice Technology)		

<sup>\*</sup> Please contact us for more detail.

## ■ PACKAGING : BOX TYPE

Dimensions (mm)		Quantity (pcs)			
Tray	365x275x10	Qty per tray	20		
Small carton	388x281.5x40	Qty per small carton	100		
Outer carton	404x298x108	Qty per outer carton	200		

#### OTHERS

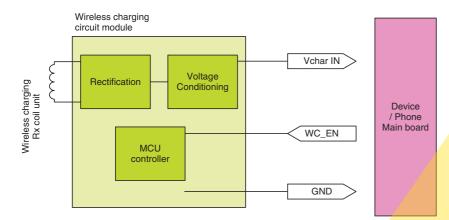
Weight	
(g) typ.	
8.0	

- All specifications are subject to change without notice.
- Before using these products, be sure to request the delivery specifications.

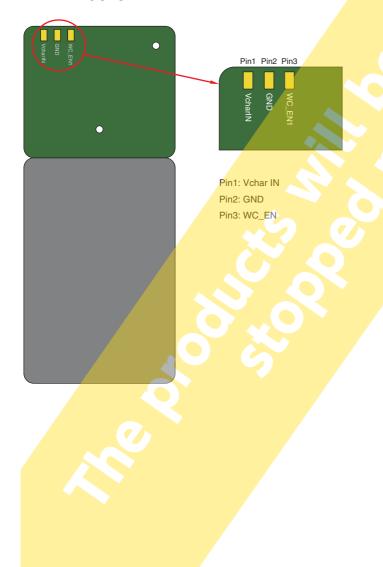


## WRM483265-10F5-12V-G

## **■ BLOCK DIAGRAMS**



#### **PIN LAYOUTS**



- All specifications are subject to change without notice.
- Before using these products, be sure to request the delivery specifications.

## Reminders

- On not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).
- O Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- OFully caution, if metal piece contacted with top of coil surface then it could be danger of generated heat.
- On tuse 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



<sup>•</sup> Before using these products, be sure to request the delivery specifications.