



Wireless Power Transfer

Tx Coil Units (WPC Compliant)

WT1005690-12F2-A6-G1



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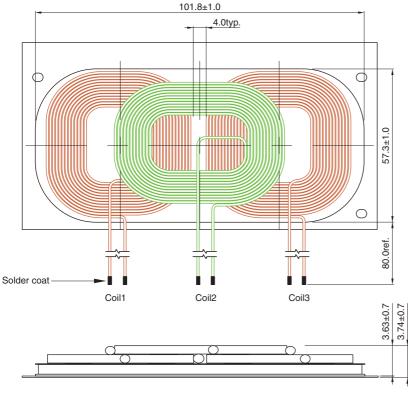
FEATURES

- O Designed based on WPC (Qi) technology
- Ousing high performance TDK magnetic material

APPLICATIONS

- O Consumer charger
- Industrial, medical and automotive products

SHAPE & DIMENSIONS



Dimensions in mm

■ AIR COIL SPECIFICATIONS

Number of Coils	Wire Diameters	Coil Turns
3	ø0.08mm x 105 strands	12 / layer, total 1 layer

 $[\]bigcirc \ \, \text{Description of icons: See the following for more details. } \ \, \text{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.



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■ 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

Inductance [100kHz] (µH)	Resistance [100kHz] (Ω)	WPC Compliant
12.5±10% (Coil1,3) 11.5±10% (Coil2)	0.09 max.	Yes

Test Environment:

Test Instrument: HP 4284A DIGITAL LCR METER or EQUIVALENT

Ambient Temperature : 15 to 35°C Relative Humidity : 25 to 75%R.H.

■ IC INFORMATIONS

IC	Manufacturer	
MWCT1003AVLH	NXP	
P9036	Renesas	
bq500410A	Texas Instruments	
bq500412	Texas Instruments	
MT3181	Richtek Technology	

^{*} Please contact us for more detail.

■ PACKAGING: BOX TYPE

Dimensions (mm)		Quantity (pcs)	
Tray	503x339x12.8	Qty per tray	8
Small carton	506x346x113	Qty per small carton	128
Outer carton	542x361x133	Qty per outer carton	128

OTHERS

Weight	
(g) typ.	
53.0	

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Reminders

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

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