Wireless Power Transfer

Tx (transmitting) coil units (WPC compliant)

WT1005690-12K2-A6-G
Overview of WT1005690-12K2-A6-G

**FEATURES**

- Tx coil units for WPC low-power (5W) specification.
- Got WPC approval for ferrite sheet.
- Thinner flexible ferrite sheet type is available for durable construction.
- Performance had been confirmed based on WPC equipments.

**APPLICATION**

Various types of battery chargers (WPC compliant)

**SHAPE & DIMENSIONS**

<table>
<thead>
<tr>
<th>Magnet (mm)</th>
<th>Sheet size (mm)</th>
<th>Coil turns</th>
<th>Thickness of coil + sheet (mm)</th>
<th>Thickness of incl. I/O (mm)</th>
<th>Coil outer size (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nothing</td>
<td>100.0x56.0</td>
<td>12ts x 1layers, 3coils</td>
<td>Bottom 2.53</td>
<td>Top coil 4.03</td>
<td>53.2x45.2</td>
</tr>
<tr>
<td>WPC A6</td>
<td>12(A6)</td>
<td>11.5 to 12.5</td>
<td>0.08</td>
<td>Flexible</td>
<td>WT1005690-12K2-A6-G</td>
</tr>
</tbody>
</table>

**ELECTRICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>WPC compliant</th>
<th>Input voltage (V)</th>
<th>Inductance [100kHz,1Vrms] (µH)</th>
<th>DC resistance [25°C] (Ω)max.</th>
<th>Ferrite type</th>
<th>Part No.</th>
</tr>
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**IC REFERENCE INFORMATION**

<table>
<thead>
<tr>
<th>IC</th>
<th>Manufacturer material name</th>
<th>Web</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Please contact us.</td>
<td></td>
</tr>
</tbody>
</table>

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 CI and Br content is less than 1500ppm.
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

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.