PRODUCT SPECIFICATION

Attn: 

CUSTOMER PRODUCT NAME:

TDK PRODUCT NAME: WT252512-8F2-SM

APPROVED BY:

CUSTOMER COMMENT:

REMARK:
Please sign back specification after customer confirmation until 2 weeks.
If customer can't sign back specification, customer should be approved TDK specification.
Or TDK receive customer PO. TDK will deem that customer recognises TDK specification.

TDK Corporation
Head Office Address:
3-9-1, Shibaura, Minato-ku, Tokyo
108-0023, Japan

SALES
MANAGER  SALES

ENGINEERING
APPROVED  CHECKED  ISSUED

Sales Office
Sales Tel.
# REVISED HISTORY

**CUSTOMER PRODUCT NAME:**

**TDK PRODUCT NAME:** WT252512-8F2-SM

<table>
<thead>
<tr>
<th>NO.</th>
<th>REV.</th>
<th>REVISED CONTENT</th>
<th>REVISED REASON</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>To establish specification</td>
<td></td>
<td>2016/8/1</td>
</tr>
</tbody>
</table>

|                          |                          |                     |          |
|                          |                          |                     |          |
|                          |                          |                     |          |
|                          |                          |                     |          |
|                          |                          |                     |          |
|                          |                          |                     |          |
|                          |                          |                     |          |
|                          |                          |                     |          |
|                          |                          |                     |          |

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**TDK**
# PRODUCT SPECIFICATION

**TDK PRODUCT NAME:** W-1101-267  
**CUSTOMER PRODUCT NAME:** WT252512-8F2-SM  
**SPEC. NO.:** W-1101-267  
**Weight:** 3.0g (Typ.)

## (1) Appearance & Dimensions (Unit: mm)

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø25.0 Typ.</td>
<td>(Ø25.5 Max.)</td>
</tr>
<tr>
<td>2.05 Typ.</td>
<td>2.21 Max.</td>
</tr>
<tr>
<td>5.0 Typ.</td>
<td>26.50 Typ.</td>
</tr>
</tbody>
</table>

![TOP VIEW](image1)

**Solder coat**

![SIDE VIEW](image2)

![BOTTOM VIEW](image3)

### Remarks
1. Lead Wire Pitch is the end of wire position, not Output terminal.
2. Marking Content:
   a. T: Manufacturing Centers
   b. Lot No.: 
      - □□・〇〇・△△ (1) (2) (3)
      - (1) Year: A.D. end number in double
      - (2) Month: Jan.(01), Feb.(02)...Dec.(12)
      - (3) Day: 01,02,03,...31.
PRODUCT SPECIFICATION

TDK PRODUCT NAME: WT252512-8F2-SM

SPEC. NO. W-1101-267

CUSTOMER PRODUCT NAME:

(2) Air coil specification

<table>
<thead>
<tr>
<th>No.</th>
<th>Wire Type</th>
<th>Wire spec.</th>
<th>Layer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>USTC</td>
<td>φ0.06*50</td>
<td>1</td>
</tr>
</tbody>
</table>

(3) Electrical Characteristics

<table>
<thead>
<tr>
<th>No.</th>
<th>Parameter</th>
<th>Specification</th>
<th>Test Instrument</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ls</td>
<td>2.76 µH ± 5%</td>
<td>HP 4284A DIGITAL LCR METER or EQUIVALENT (@1.0MHz 1.0 Vrms)</td>
</tr>
<tr>
<td>2</td>
<td>Rs</td>
<td>0.15 Ω ± 10%</td>
<td>HP 4284A DIGITAL LCR METER or EQUIVALENT (@1.0MHz 1.0 Vrms)</td>
</tr>
<tr>
<td>3</td>
<td>Rdc</td>
<td>0.07 Ω Typ.</td>
<td>CHEN HWA 502A OHM METER or EQUIVALENT</td>
</tr>
</tbody>
</table>

(4) Temperature Characteristics

<table>
<thead>
<tr>
<th>No.</th>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Operating Temperature</td>
<td>-30~70°C</td>
</tr>
<tr>
<td>2</td>
<td>Storage Temperature</td>
<td>-40~85°C</td>
</tr>
</tbody>
</table>

(5) Application

1. Reflow and dip-flow soldering can not used for this product.

2. The product fit in with RoHS rule.

3. The product fit in with Halogen-Free.
### (6) Reliability Conditions

<table>
<thead>
<tr>
<th>No.</th>
<th>Parameter</th>
<th>Conditions</th>
</tr>
</thead>
</table>
| 1   | Low Temperature (Storage)     | (1) Temperature: -40±2°C  
(2) Time: 240Hrs                                                             |
| 2   | High Temperature (Storage)    | (1) Temperature: +85±2°C  
(2) Time: 240Hrs                                                             |
| 3   | Thermal Shock (Storage)       | (1) Temperature: - 40±5°C / 30min ~ + 85±5°C / 30min  
(2) Ambient Time: 5min  
(3) Times: 200cycles                                                     |
| 4   | Vibration                     | Unpacked:  
(1) Frequency: 10~350Hz sweep  
octave wave(1 oct/ min)  
(2) Amplitude: 10G or 1.5mm P-P  
(3) Testing time: XYZ 2h/axis, total 6h                                   |
| 5   | Shock Test                    | Fixed within the jig  
(1) Acceleration: 1000m / s²  
(2) Pulse width: 6 msec  
(3) Direction: X, Y, Z direction  
(4) Frequency of shock: 3 times each,  
(Total 18 times)                                                           |
| 6   | Temperature / Humidity (Storage) | (1) Temperature: +60±2°C  
(2) Humidity: 90% RH.  
(3) Time: 240Hrs                                                            |
| 7   | Free fall                     | (1) Height: 160cm to the concrete floor  
(fixture weight: 160g)  
(2) Direction: 6 directions  
(3) Times: 3 times / direction                                              |
| 8   | Package Drop                  | (1) Drop the sample packaged in a carton box.  
(2) Height: 100 cm  
(3) Direction: 1 corner, 3 edges, 6 faces  
(4) Drop time: 10 times                                                     |
(7) Construction

(8) Material List

<table>
<thead>
<tr>
<th>No.</th>
<th>Material Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Air coil</td>
</tr>
<tr>
<td>2</td>
<td>Adhesive Tape</td>
</tr>
<tr>
<td>3</td>
<td>Main sheet</td>
</tr>
<tr>
<td>4</td>
<td>PET Tape</td>
</tr>
<tr>
<td>5</td>
<td>INK</td>
</tr>
</tbody>
</table>
(8) Packing

1. To stack the trays onto 5 layers:
   - PS tray dimension: 329*326*10.1mm
   - 28 Pcs / per PET tray

Total: 7x4 = 28pcs

Total: 28x4 = 112pcs
2. To put 5 Trays of products into the small carton and affixing the out-going label on the outside.
   - 5 PS Trays / per small carton (One PS tray of the top side is empty in the small carton)
   - In carton label should be located on the lower right and lower left hand corner of top face
   - Small carton dimension: 331x337x33mm
   - Label dimension: 100*42 mm
3. To put 3 small cartons into the outer carton.
   - Outer carton dimension: 352x350x137mm
   - Total quantity: 336 Pcs

4. Packing.
   - To pack the carton by scotch tape and affix out-going label (outside) on it outside.
   - The Inspection data in the outer carton, there would be a signet mark on it outside.
   - In carton label should be located on the lower left hand corner of greatest face.
   - Receiving label dimension: 210*100 mm

**INSPECTION DATA ENCLOSED**
檢驗紀錄表在內
1. We may modify products or discontinue production of a product listed in this catalog without prior notification.

2. We provide “Delivery Specification” that explain precautions for the specifications and safety of each product listed in this catalog. We strongly recommend that you exchange these delivery specifications with customers that use one of these products.

3. If you plan to export a product listed in this catalog, keep in mind that it may be a restricted item according to the “Foreign Exchange and Foreign Trade Control Law”. In such cases, it is necessary to acquire export permission in harmony with this law.

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5. We are not responsible for problems that occur related to the intellectual property rights or other rights of our company or a third party when you use a product listed in this catalog. We do not grant license of these rights.

6. This catalog only applies to products purchased through our company or one of our company’s official agencies. This catalog does not apply to products that are purchased through other third parties.

7. 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

When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.