



PRODUCT SPECIFICATION

SPEC. No : W-1101-275

Attn: _____

DATE : _____

CUSTOMER PRODUCT NAME:

TDK PRODUCT NAME: **WR202010-18M8-SM**

APPROVED BY:

CUSTOMER COMMENT:

REMARK:
Please sign back specification after customer conformation until 2weeks.
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. _____

PRODUCT	
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REVISED HISTORY

CUSTOMER PRODUCT NAME: _____

TDK PRODUCT NAME: _____

WR202010-18M8-SM

NO.	REV.	REVISED CONTENT	REVISED REASON	DATE
1	0	To establish specification.		2016/8/1

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(0) Part No. definition

Weight: 0.55 g (Typ.)

WR202010-18M8-SM

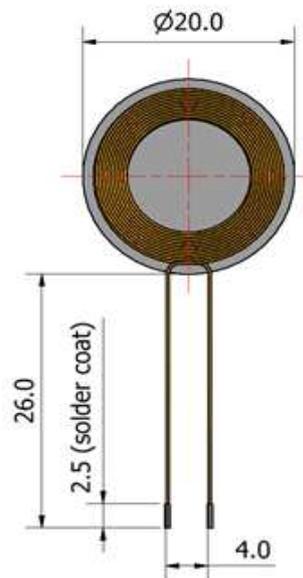
WR : Wireless charging Rx, 18 : Wire turn number,

202010 : Size (XYT), M8 : Ferrite sheet material

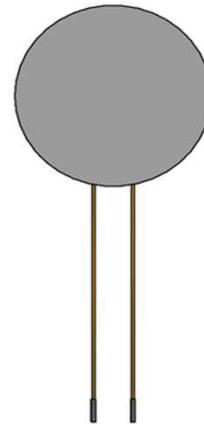
SM : Specific number for Customer

(1) Mechanical Dimension (Unit: mm)

Top View



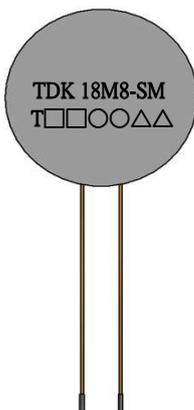
Bottom View



Side View



(2) Remarks



Marking Content:

a. Product name : 18 M 8 - SM

① ② ③ ④

① Air coil turn

② Sheet Material name

③ Customer name

④ Version number

b. Lot No.: T 12 34 56

① ② ③

① Year: 2016 : 16 , 2017 : 17

② Month: 01...12

③ Day : 01,...31.

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(3) Air coil specification

No.	Wire Type:	Wire spec.	Turns	Layer
1	3 Lock	φ0.25	18Ts	2

(4-1) Electrical Characteristics

Items	Parameter	Specification	Test Instrument
1	Inductance	10.7 μH ± 5%	Agilent E4980A LCR METER or EQUIVALENT (@1.0MHz 1.0 Vrms)
2	Rs	2.96 Ω ± 10%	Agilent E4980A LCR METER or EQUIVALENT (@1.0MHz 1.0 Vrms)
3	Rdc (Reference)	0.35 Ω Typ.	CHEN HWA 502A OHM METER or EQUIVALENT

(4-2) Temperature Characteristics

No.	Parameter	Specification
1	Operating Temperature	-30~70°C
2	Storage Temperature	-40~85°C

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(5) Reliability Conditions

NO.	Parameter	Conditions
1	Low Temperature (Storage)	(1) Temperature : $-40\pm 2^{\circ}\text{C}$ (2) Time : 240Hrs
2	High Temperature (Storage)	(1) Temperature : $+85\pm 2^{\circ}\text{C}$ (2) Time : 240Hrs
3	Thermal Shock (Storage)	(1) Temperature : $-40\pm 5^{\circ}\text{C}$ / 30min ~ $+85\pm 5^{\circ}\text{C}$ / 30min (2) Ambient Time : 5min (3) Times : 200cycles
4	Vibration (sinusoidal)	Unpacked: (1)frequency:10~350Hz sweep octave wave(10~350~10 for 1 min) (2)Amplitude:1.5mm(p-p) or 10G (3)Direction:X.Y.Z. direction (4)Time:X.Y.Z each 2 hours.
5	Shock Test	Fixed within the jig (1) Acceleration : $1000\text{m} / \text{s}^2$ (2) Pulse width : 6 msec (3)Direction:X.Y.Z. direction (4) Frequency of shock : 3 times each , (Total 18 times)
6	Free fall	(1) Height : 160cm to the concrete floor (fixture weight : 160g) (2) Direction : 6 directions (3) Times : 3 times / direction
7	Packaging test	(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
8	Temp. / Humidity (storage)	(1)Temperature : $+60\pm 2^{\circ}\text{C}$ (2)Humidity: 90% R.H. (3)Time: 240Hrs

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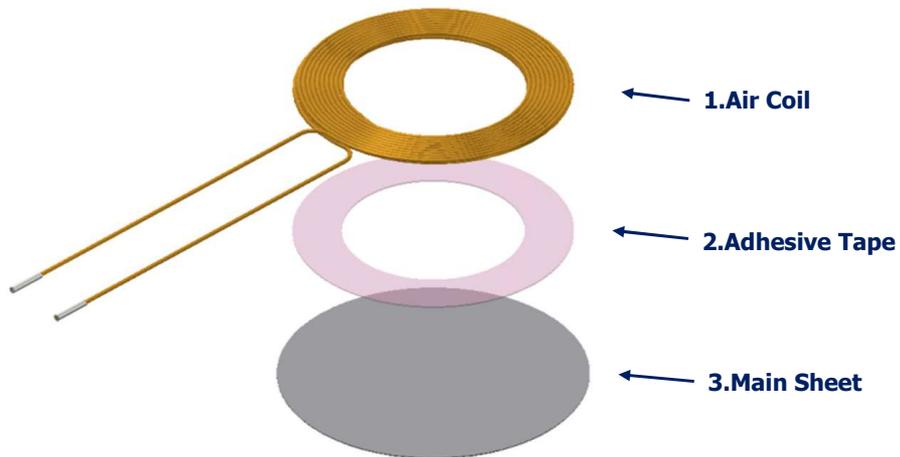
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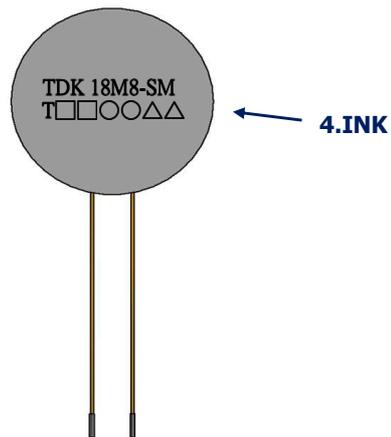
CUSTOMER PRODUCT NAME:

(6) Construction



(7) Material List

No.	Material Name
1	Air coil
2	Adhesive Tape
3	Main Sheet
4	INK



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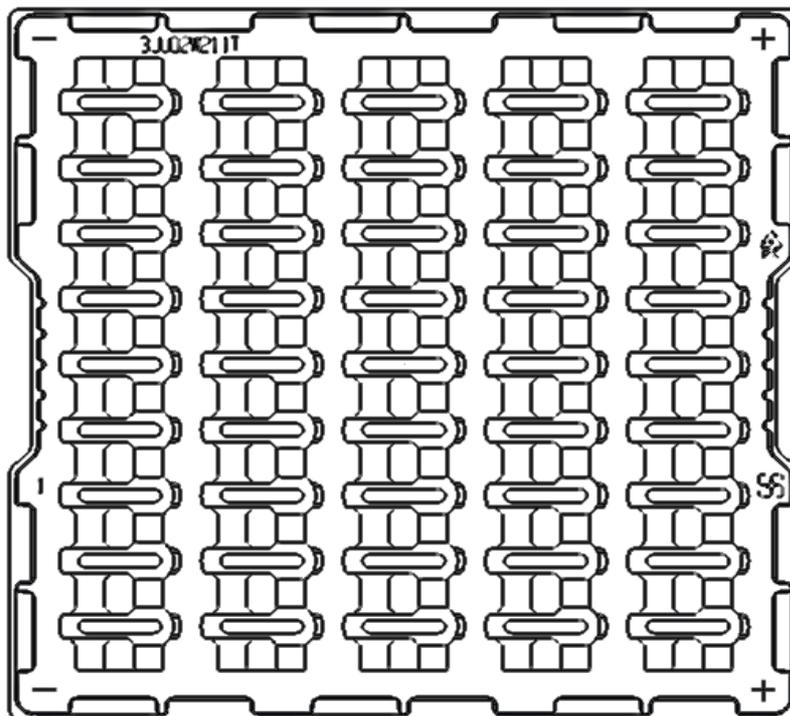
CUSTOMER PRODUCT NAME:

(8) Packing

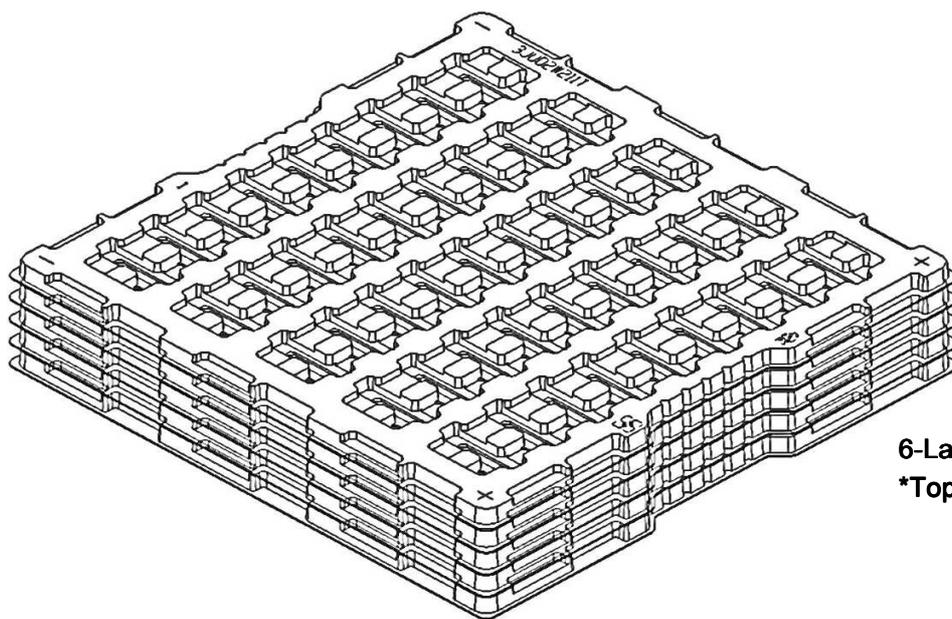
1. To stack the the Trays onto 6 Layers. :

- PS tray dimension: 329*326*9.5mm

- 45 Pcs / per PET tray



Total : 45pcs



6-Layers
*Top side is empty.

Total : 45x5=225pcs

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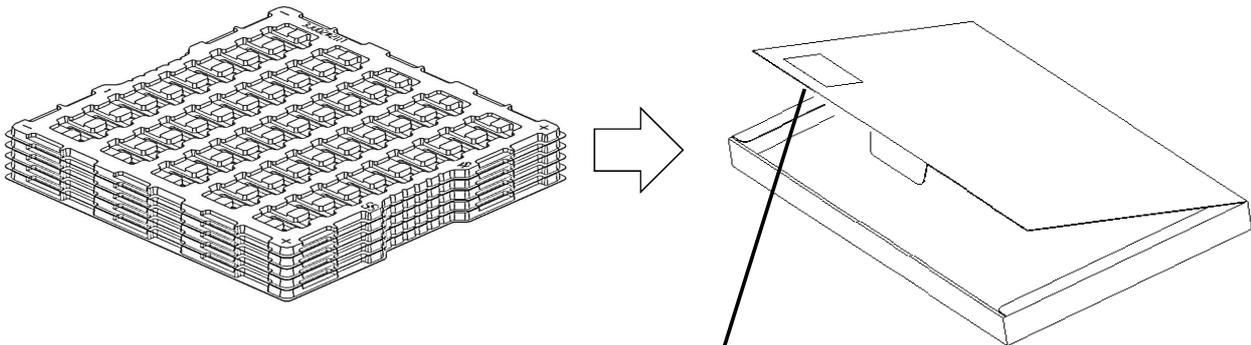
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2. To put 6 Trays of products into the small carton and affixing the out-going label on the outside .

- 6 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

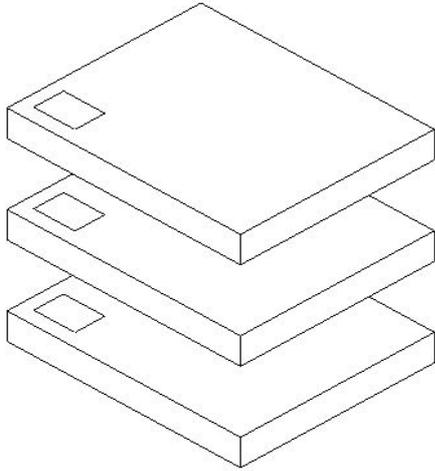


Product package label

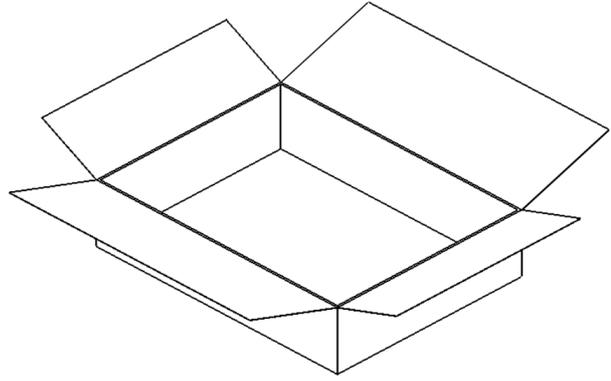
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3. To put 3 small cartons into the outer carton .
- Outer carton dimension: 352x350x137mm
 - Total quantity : 675 Pcs



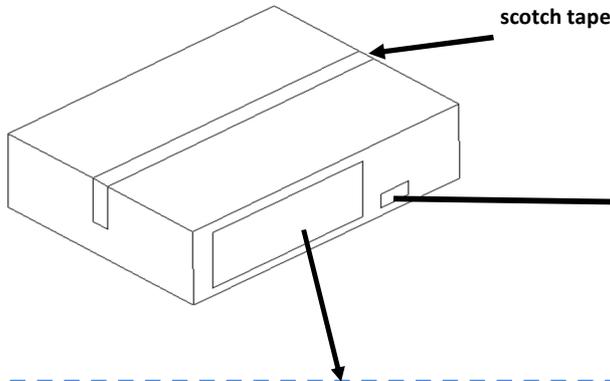
3 small cartons



Outer carton

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



signet mark of Inspection data

(3S) TTTW+WL11 K06002001 01 400000360 		CUSTOMER:	
(6S) C/NO:1 		CUST. PART NO(P): 	
SHIPPING MARK	BOX COUNT 001/009	TDK ITEM CODE(6P): TTXDFxxxx TWN 	
SAMPLE	ROHS	P/O NO.(G): TTTT-S123456789 	
Location		LOT NO.(1T): WL12345678 	DATE: 08.01.2016
MADE IN TAIWAN		QTY(Q): 675 	
WL12K34567 12345A6789 		TDK ITEM (1P): WR202010-18M8-SM 	
		(WR202010-18M8-SM)	
		SUB P/O NO.(6P): 4500059424 	
		TDK SPEC.	
C/NO:1	WAREHOUSE (GT) NW 5.5 GW 6.50	TTX TAIWAN CORPORATION	YANGMEI, TAIWAN 9
			TTXDF10151

Receiving label format



REMINDERS

Please read this before using the product.



REMINDERS

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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.

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- (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.