

# FOR APPROVAL

CUSTOMER : LG 전자  
P/N : AHS72973401  
MATERIAL : MnZn  
MODEL : WTG3-085-64-4R2(VP19)  
DATE : 03. MAY. 2022  
REVISION - 1.0

| PREPARED BY | CHECKED BY | APPROVED BY |
|-------------|------------|-------------|
| K. H. JEONG | J. R. SON  | J. H. KANG  |



TODA ISU CORPORATION

HEAD OFFICE & FACTORY : MUNMAKGONGDAN-GIN 236, WONJU-SI KANGWON-DO, KOREA.  
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개정 이력

| ISSUE | DATE                                        | PAGE           | DETAILS OF ALTERATION                     |
|-------|---------------------------------------------|----------------|-------------------------------------------|
| 1     | 2022.01.14.<br>2022. 01. 25<br>2022. 04. 20 | 3<br>5, 10, 11 | ISSUE<br>Max Input Current<br>COIL CHANGE |



TODA ISU Corporation

# SPECIFICATIONS

|           |      |           |               |
|-----------|------|-----------|---------------|
| Material  | MnZn | CORE Type | PT 6443(1.4T) |
| Spec Rev. | 0    | Drwg Rev. | 1.1           |

## 1. Electromagnetic specifications

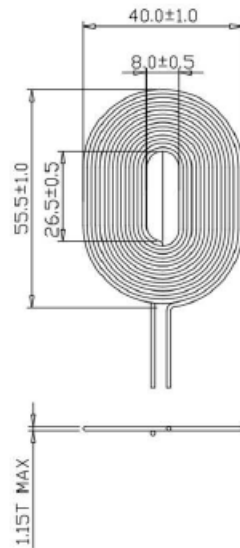
| Electrical Data &<br>Test conditions                                                     | Inductance (L)                                |             | RESISTANCE  |          |
|------------------------------------------------------------------------------------------|-----------------------------------------------|-------------|-------------|----------|
|                                                                                          | BOTTOM COIL                                   | TOP COIL    | BOTTOM COIL | TOP COIL |
| Values  | 11.5uH± 10%                                   | 12.5uH± 10% | 120mΩ – MAX |          |
| Value With JIG                                                                           |                                               |             |             |          |
| Temperature                                                                              | 25℃ ± 2℃                                      |             |             |          |
| Test equipment                                                                           | HP-4284A LCR METER<br>OR EQUIVALENT EQUIPMENT |             |             |          |
| Test frequency                                                                           | 100 kHz                                       |             |             |          |
| Test voltage                                                                             | 1 V                                           |             |             |          |
| Max Input Current (A)                                                                    | Normal 4.0A                                   |             |             |          |

## 2. Temperature Characteristics.

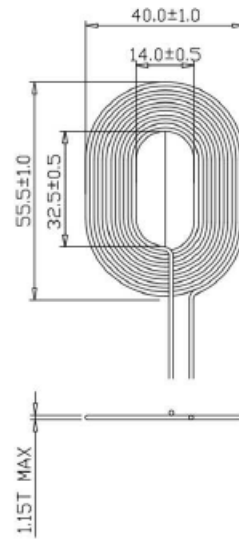
| NO | Parameter             | Specification |
|----|-----------------------|---------------|
| 1  | Operating Temperature | -40 ~ 120℃    |
| 2  | Storage Temperature   | -40 ~ 80℃     |

# MATERIAL LIST

| No. | Part Name.    | Dimension & type                                                        | Manufacture                                                   | Color     |
|-----|---------------|-------------------------------------------------------------------------|---------------------------------------------------------------|-----------|
| 1   | Ferrite       | MnZn PT 6443                                                            | TODAISU                                                       | Black     |
| 2   | COIL          | Litz Wire 0.08*105strands<br>(155℃ class) Smartbonding<br>or equivalent | Electrysolar or<br>DUHYUN ELECTRONIC CO.,<br>LTD              |           |
| 3   | PET FILM      | 50um (KJ5225BBS or equivalent)                                          | KOOKJE LATEK/<br>HUIZHOU CITY HUI KE DA<br>TECHNOLOGY CO. LTD | Black     |
| 4   | Bottom tape   | CROWN #512<br>/3M 9183 / ADH 0.15T                                      | ZHONG SHAN CROWN<br>ADH PRODUCTS CO. LTD<br>/ 3M              | White     |
| 5   | BOND          | EPOXY SW-300Bk(FC)                                                      | SUNGWOO ES                                                    | Black     |
| 6   | Coil ADH tape | double-sided pressure-sensitive<br>adhesive tape                        | SHEN ZHEN NIKTO TAPE NEW<br>MATERIAL CO.,LTD                  | Colorless |
|     |               | 7972                                                                    | MEIYU PACKING MATERIAL<br>CO., LTD                            | Colorless |
| 7   | SOLDER        | Lead Free Solder Bar                                                    | SEOUL ALLOYMETAL.<br>HEESUNG MATERIAL                         | Silver    |

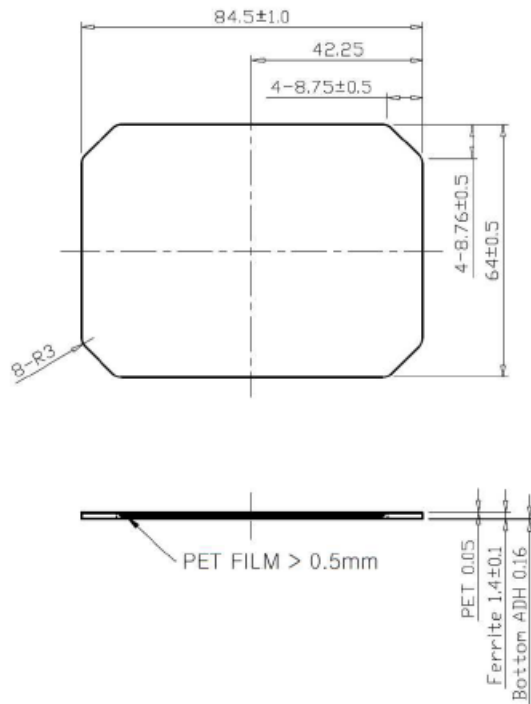


TOP COIL :  
Smartbonding Litz WIRE  
0.08\*105P - 15Ts



BOTTOM COIL :  
Smartbonding Litz WIRE  
0.08\*105P - 12Ts

| MARK         | DATE       | DETAIL OF REVISION |                                                      | CHECKED  |
|--------------|------------|--------------------|------------------------------------------------------|----------|
| APPROVED     | 2022.04.03 | J.R.SON            | TITLE<br><br>COIL<br><br><b>TODA ISU Corporation</b> | APPROVED |
| CHECKED      | 2022.04.03 | J.R.SON            |                                                      |          |
| DESIGNED     | 2022.04.03 | J.R.SON            |                                                      |          |
| DRAWING      | 2020.03.12 | J.R.SON            |                                                      |          |
| SCALE<br>N.S | MAT'L      | SIZE               |                                                      |          |
|              |            |                    | DWG<br>Rev.                                          | 2.0      |



NOTE.  
 Ferrite : MnZn 1.4T  
 PET : 출력 방향 페라이트 측면을 덮을 것

|          |            |                    |                      |          |
|----------|------------|--------------------|----------------------|----------|
|          |            |                    |                      |          |
|          |            |                    |                      |          |
| MARK     | DATE       | DETAIL OF REVISION | CHECKED              | APPROVED |
| APPROVED | 2021.07.05 | J.R.SON            | PT 6443              |          |
| CHECKED  | 2021.07.05 | J.R.SON            |                      |          |
| DESIGNED | 2021.02.16 | K.H.JEONG          |                      |          |
| DEAWN    | 2021.02.09 | K.H.JEONG          | TODA ISU Corporation |          |
| SCALE    | N.S        | MAT'L              |                      |          |
|          |            |                    | DWG                  | 0.1      |
|          |            |                    | Rev.                 |          |

