

ABSORBER TAPE (P/N : USOB-1.0-V2-A4)

(주) 뉴티씨 (NewTC)

<http://www.NewTC.co.kr>

1 ABSORBER TAPE

1-1 General Description

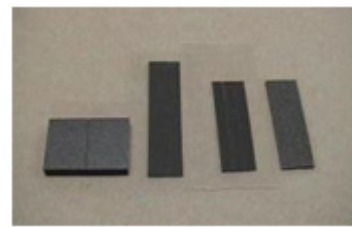
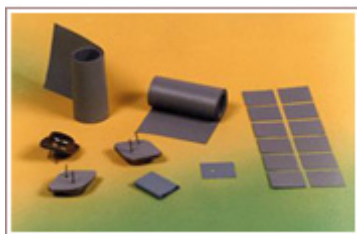
An electromagnetic absorber means to microwave attenuation materials which is incident electromagnetic wave energy convert to heat energy loss, magnetic loss, and ohmic loss.

1-2 Features

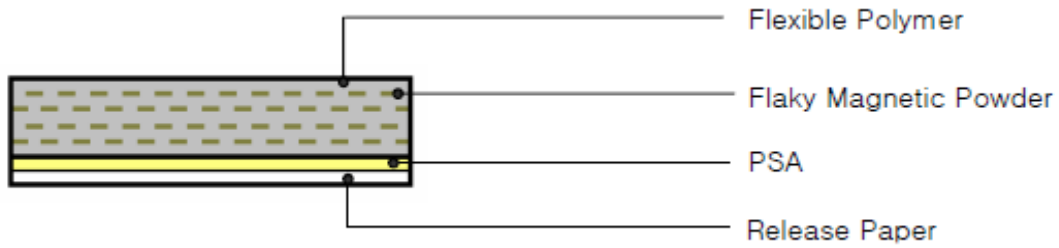
- ◆ Excellent effectiveness for EMI/EMS/SAR
- ◆ Excellent absorbing characteristic
- ◆ Wideband frequency characteristic
- ◆ Flame retardant
- ◆ Meet RoHS requirement

1-3 Application

- ◆ Electromagnetic noise reduction for electrical equipment
(especially for mobile equipment)
- ◆ SAR reduction for mobile phone
- ◆ Amplifier
- ◆ RF-block
- ◆ Improvement of noise immunity and ESO

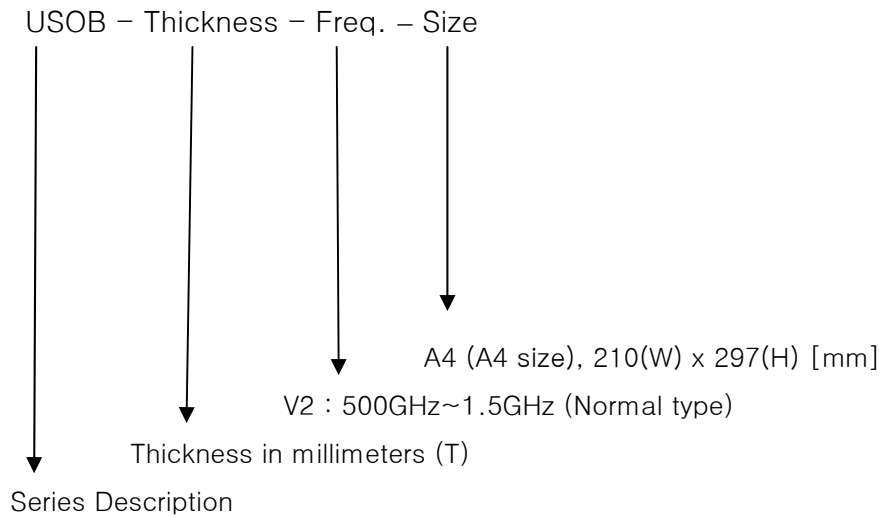


2 Construction



| No | Material Name | Specification | Material | Remark |
|----|------------------|---|--|---------------------|
| 1) | Flexible Polymer | Thickness: 1.0mm | Polymer resin with magnetic flake filler | P/N: USOB-1.0-V2-A4 |
| 2) | PSA | Adhesive Layer Thickness: 100 μ m Adhesive Strength: Min. 800gf/25mm | Conductive Acryl Adhesive | |
| 3) | Release Paper | | | |

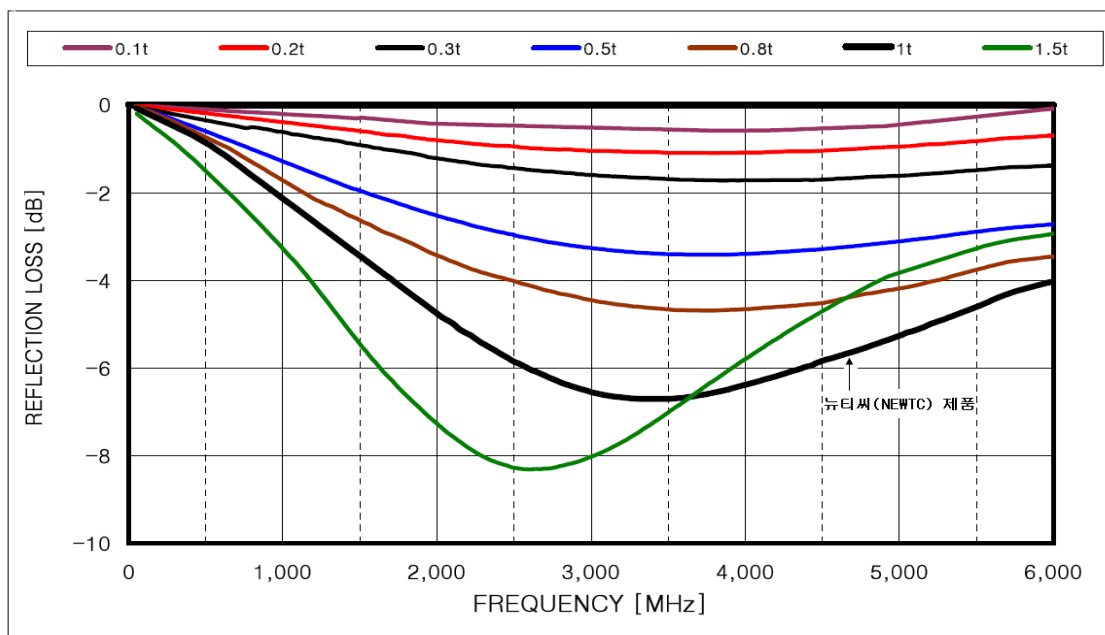
2-1 Part Number Construction



◆ Typical Properties

| Properties | Unit | Description | Remark | |
|----------------------|---------------------------|--|------------------|---------|
| Type of Absorber | - | Polymer resin with magnetic flake filler | | |
| Thickness | mm | 0.1~1.5(more than 1.5mm thickness is customized) | | |
| Standard Size | mm, m | - Sheet Type : 210mm*297mm - Roll Type : 210mm * 20m, 210mm * 10m | | |
| Temperature Range | °C | -25 ~ 85 | | |
| Surface Resistance | Ω/sq | Min. 1 X 10 ⁸ | | |
| Hardness (Shore A) | degree | 90±10 | | |
| Thermal Conductivity | W/mk | 0.3 | | |
| Tensile Strength | Mpa | Min. 5.0 | | |
| Attenuation | - | S11 Reflection Loss, Refer to below chart | | |
| Adhesive Type | Description | Thickness | Adhesive Stregth | |
| | Non Tape Type | - | | |
| | Conductive Acryl Adhesive | 100μm | Min. 800gf/25mm | NEWTC제품 |
| | Acryl Adhesive | 20μm | Min. 1000gf/25mm | |
| | | 30μm | Min. 1000gf/25mm | |
| 50μm | | Min. 1200gf/25mm | | |
| 100μm | Min. 1500gf/25mm | | | |
| TEST METHOD | - | ASTM D 3330 | | |

◆ Attenuation(Typical Value)





<ABSORBER TAPE USOB-1.0-V2-A4>

| (주)뉴티씨(NEWTC)에서 판매하는 품목 | | | | | | |
|-------------------------|----------------|----------------|------------------|-----|-----|--------|
| 품명 | 구분 | 규격 | 길이(mm) | 수량 | 용도 | |
| SHIELD FORM | TAFETA | 비난연 | UKB10-LS10-190-5 | 190 | 5 | 전계용 |
| | TAFETA | 비난연 | UKB6-LN6-200-5 | 200 | 5 | 전계용 |
| | TAFETA | 난연 | UKU13-3-150-8 | 150 | 5 | 전계용 |
| | RIP | 비난연 | URB10-R5-200-D | 200 | 5 | 전계용 |
| | RIP | 비난연 | URB5-1.5-200-4 | 200 | 5 | 전계용 |
| | RIP | 비난연 | URB8-4-180-4 | 180 | 5 | 전계용 |
| | RIP | 비난연 | URB9-1-200-D | 200 | 5 | 전계용 |
| | RIP | 난연 | URU10-3-150-8 | 150 | 5 | 전계용 |
| TAPE | ALRUMINUM | 가공 | UK-100-50-100 | | 10 | 전계용 |
| | | 를 | UK-100-20 | 50 | 1 | 전계용 |
| | COPPER | 가공 | UK-101-50-100 | | 10 | 전계용 |
| | | 를 | UK-101-20 | 25 | 1 | 전계용 |
| | C/FABRIC | 가공 | UK-102-50-100 | | 10 | 전계용 |
| | | 를 | UK-102-20 | 50 | 1 | 전계용 |
| | C/FABRIC(M) | 가공 | UK-106-50-100 | | 10 | 전, 자계용 |
| | | 를 | UK-106-20 | 50 | 1 | 전, 자계용 |
| | INSULATOR | 가공 | UK-300-50-100 | | 10 | 절연용 |
| | | 를 | UK-300-20 | 50 | 1 | 절연용 |
| | | 가공 | UK-300-210-300 | | 2 | 절연용 |
| | SHIELD CUSHION | 시트 | UCC-1.3-100-200 | | 1 | 전계용 |
| ABSORBER | 시트 | USOB-1.0-V2-A4 | | 1 | 전계용 | |
| THERMAL SHEET | 시트 | UTH-220-220-1T | | 1 | 열전용 | |