

EMC Absorber EA10□□A type Reference Specification

1.Scope

This reference specification applies to EMC Absorber EA10□□A type.

2.Part Numbering

(ex.) EA1026 A 100 M□□□□□□
 Type Tape type Sheet Thickness Product Dimensions
 (100:1.00mm) (M:mm/□□□□□□:Product Dimensions(XY)※)
 ※See the Individual Specification.

3. Part Number and Rating

- Operating Temperature : -40°C to +80°C
- Storage Temperature : -40°C to +80°C

Part Number	Applicable Center Frequency (Typ.) (GHz)	Sheet Thickness (mm)	Adhesive tape Thickness (Typ.) (mm)
EA1026A100M□□□□□□	20.0	1.0±0.1	0.17
EA1026A160M□□□□□□	11.5	1.6±0.1	
EA1026A180M□□□□□□	10.0	1.8±0.1	
EA1046A180M□□□□□□	5.8	1.8±0.1	
EA1075A270M□□□□□□	2.5	2.7±0.1	

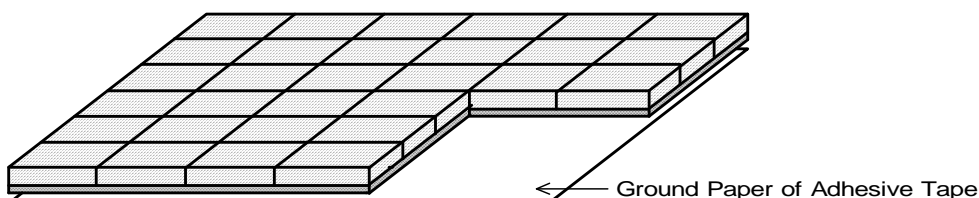
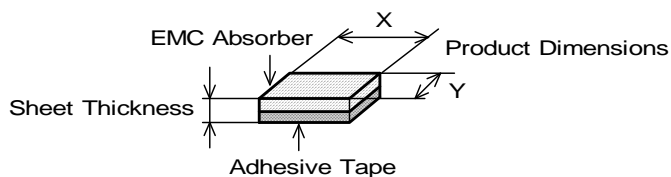
4.Standard Testing Conditions

《The standard condition (JIS K6250)》

Temperature : 23°C ± 2°C

Humidity : 45%RH~ 55%RH

5.Style and Dimensions



Construction	Material	Mtl Dsg	Flame Class	UL fileNo.	Maker	Remark
EMC Absorber	Composite magnetic material (Silicone rubber+ Soft magnetic material)	IS-□□	UL94V-0	E62753	TAKECHI Co.,LTD.	Non-halogene
Adhesive tape	Double-sided adhesive tape (Nonwoven + Adhesive)	No.500	—	—	NITTO DENKO CORPORATION	Non-halogene

6.Electrical Performance

No.	Item	Specification			Test Method
		EA1026	EA1046	EA1075	
6.1	Magnetic Permeability - Reluctance	3GHz	0.5 min.	1.0 min.	S-Parameter Method (Fig.1)
		6GHz	0.5 min.	1.0 min.	
		12GHz	0.5 min.	1.0 min.	
6.2	Volume resistivity(Ω·cm)	1.0×10 ¹⁰ min.	1.0×10 ⁸ min.	1.0×10 ⁷ min.	Fig.2
6.3	Surface resistivity(Ω)	1.0×10 ¹⁰ min.	1.0×10 ⁸ min.	1.0×10 ⁷ min.	Fig.2

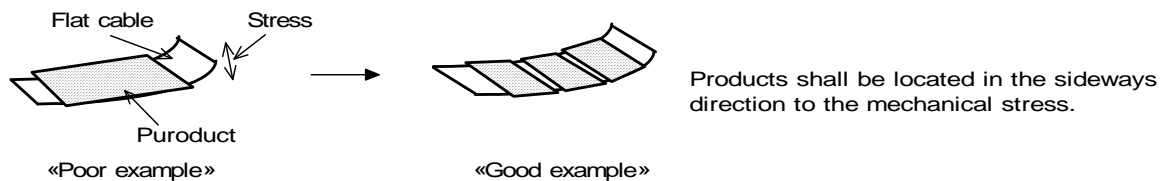
10. ⚠ Caution**10.1 Limitation of Applications**

Please contact us before using our products for the applications listed below which require especially high Reliability for the prevention of defects which might directly cause damage to the third party's life, body or property.

- | | |
|--|--|
| (1) Aircraft equipment | (7) Traffic signal equipment |
| (2) Aerospace equipment | (8) Transportation equipment (vehicles, trains, ships, etc.) |
| (3) Undersea equipment | (9) Data-processing equipment |
| (4) Power plant control equipment | (10) Applications of similar complexity and /or reliability requirements |
| (5) Medical equipment | to the applications listed in the above |
| (6) Disaster prevention / crime prevention equipment | |

11. Notice**11.1 Adhesive Tape Stress**

This product is designed for using the adhesive tape to hold itself to the object.
And please avoid suffering any mechanical stress cause by the bending or variation of the object.

**11.2 Cleaning**

Avoid cleaning product.

11.3 Handling of the product

Adhesive tape must be clean to keep the quality of tape.
And please wipe off any dirt, dust and any kind of oil from the surface of the object, before use it.

11.4 Storage Requirements

- (1) Storage period
 - Products which inspected in MURATA over 6 months ago should be examined and used, which can be confirmed with inspection No. marked on the container.
 - Adhesiveness should be checked if this period is exceeded.
- (2) Storage conditions
 - Products should be storage in the warehouse on the following conditions.
 - Temperature : -10°C to 40°C
 - Humidity : 30% to 70% relative humidity
 - No rapid change on temperature and humidity
 - Products should be stored in the warehouse without heat shock, vibration, direct sunlight and so on.

12. Manufacturer

This product is produces by following manufacturer.
Manufacturer : TAKECHI Co.,LTD.

13. ⚠ Note

- (1) Please make sure that your product has been evaluated in view of your specifications with our product being mounted to your product.
- (2) You are requested not to use our product deviating from the reference specifications.
- (3) The contents of this reference specification are subject to change without advance notice. Please approve our product specifications or transact the approval sheet for product specifications before ordering.

Fig.1 S-Parameter Method

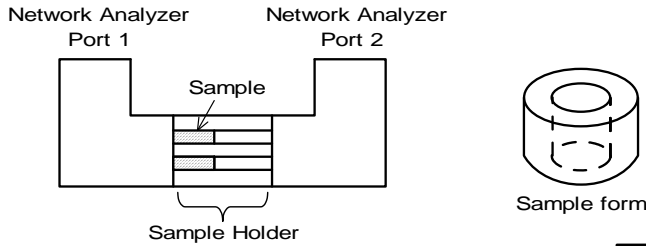


Fig.2 Measuring Method of Resistivity

- (1) Set the sample in the test equipment, and measure the Resistance.
- (2) Expression of Resistivity rate
 Volume Resistivity(ρ) = $\pi \cdot d^2 / (4t) \times R_v$
 Surface Resistivity(ρ) = $\pi (d+D) / (D-d) \times R_s$
 R_v : Measured Volume Resistance
 R_s : Measured Surface Resistance
 T : Thickness of Sample

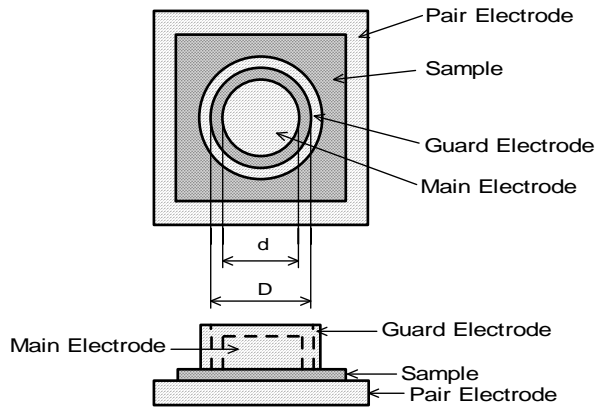


Fig.3 Measurement of Tape Adhesive Strength

- (1) Size of sample: 10×50mm (10×20mm: Adhesive Tape portion, 10×30mm: Grip portion for test)
- (2) Put the PET film to the EMC Absorber in order to reinforce it.
- (3) Using Aluminium Plate, Tape Adhesive Strength is measured by following conditions:
 Speed: 100mm/min Angle: 90°
- (4) For other detail for the testing, please refer to the standard JIS Z 0237 (for Adhesive Tape and Sheet test method), and JIS Z 1528 (90° Tape Adhesive Strength Tape measurement method).

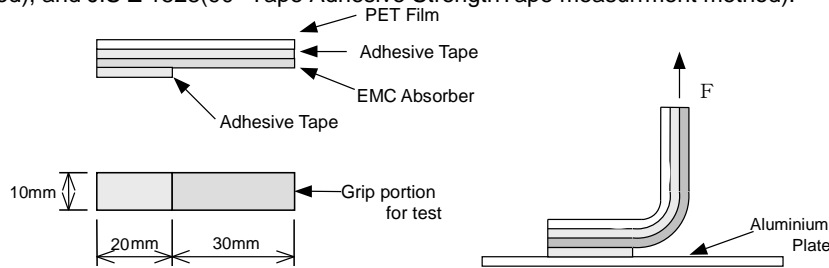


Fig.4 Reflection Loss (Typ.)

