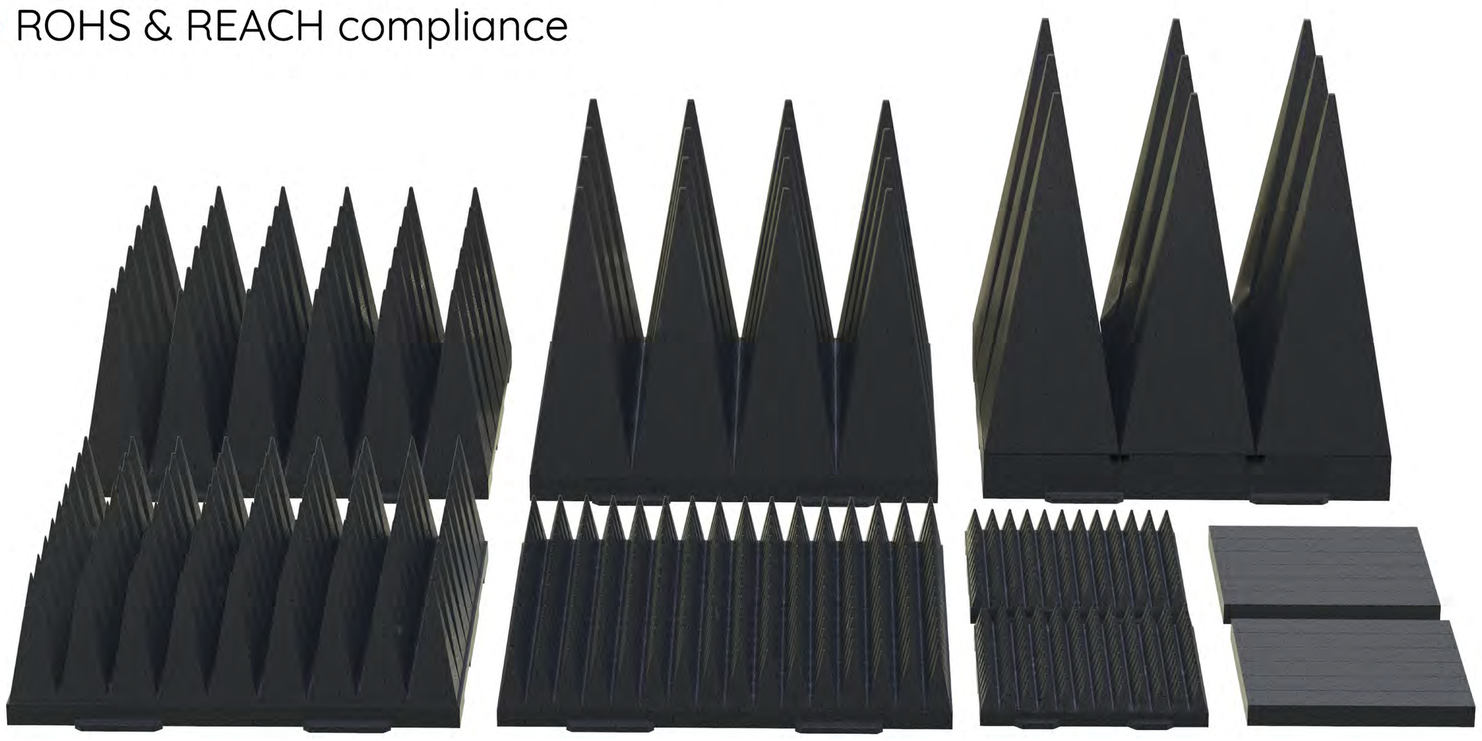
AB-X

atenlab

# EPP Broadband Absorber

All absorber products are EPP(Expanded Polypropylene).EPP possesses low density, high energy absorption, and excellent elastic recovery properties, making it an ideal choice for various applications. Use for RF, EMC, OTA, CATR, radar, aerospace, aviation, automotive, communication, satellite, semiconductor, antenna, EM, broadband anechoic chamber, to bring users more comfortable and high quality experience.

- Snap fit design for quick installation and correct alignment, stackable, impact resistible
- Low moisture absorbability and high humidity environment suitability
- NRL 8093, UL 94, ISO 4589-2, ISO 11925-2, DIN 4102-1 compliance
- Dust-free process ensures a clean environment Class level 8
- ROHS & REACH compliance



RoHS COMPLIANCE

REACH COMPLIANCE

## Characteristics

| Item | Description | Reference |
|---|---|---|
| Operation temperature (°C) | -15 to +60 | IEC 60068-2-1 |
| Humidity range (%) | 30 to 70 | AATCC 30-IV |
| Power density susceptibility (V/m) | 750 | DO-160, IEC 61000-4-3 |
| ESD susceptibility (kV) | 16 | IEC 61000-4-2 |
| ISO dust-free (Class) | 8, Class 100,000 | ISO 14644-1, STD 209E |
| Waterproof rating | IPX5 | IEC 60529 |
| Fire-retardant performance | Compliance | NRL 8093 Tesr 1 and 3<br>UL 94-HBF, ISO 4589-2<br>ISO 11925-2/E, DIN 4102-1/B2 |
| RoHS | Compliance | EU 2015/863 (RoHS 2.0) |
| REACH | Compliance | EC 1907/2006 |

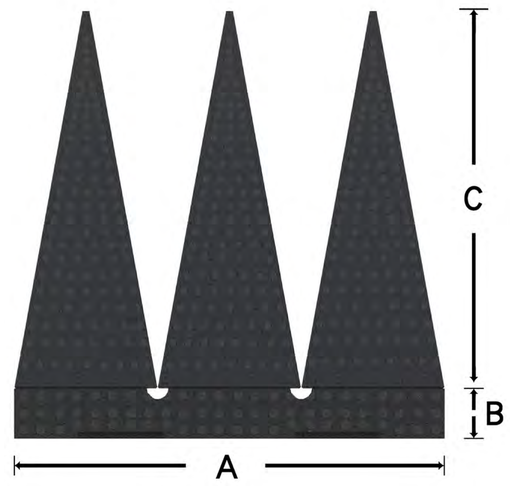

## Atenlab Corporation

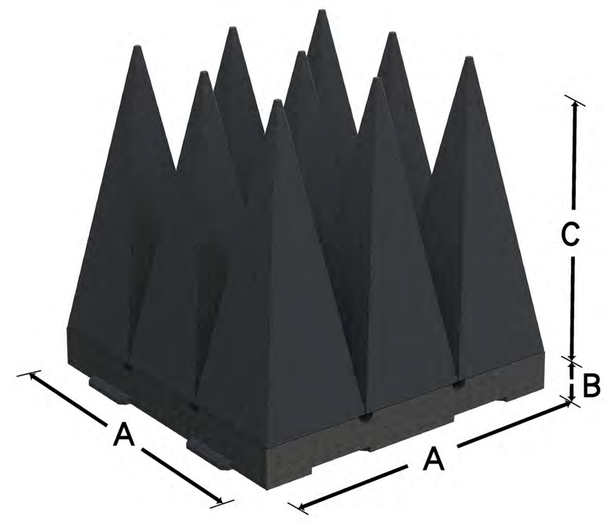
6F., No.8, Aly.15, Ln.120, Sec.1, Neihu Rd., Neihu Dist., Taipei City 114, Taiwan

T：+886 2 2799 8715 F：+886 2 2799 8915 E：atenlab@atenlab.com.tw

atenlab

# AB-X



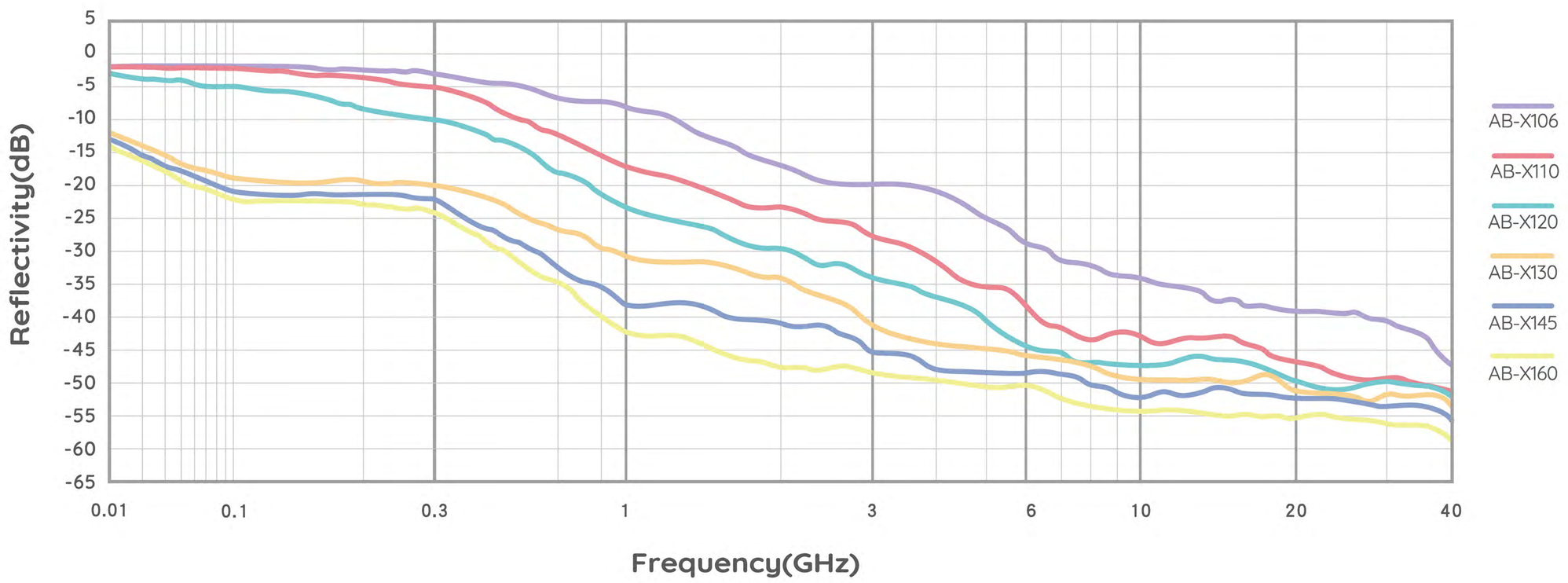




## Physical Properties

Unit : cm, ±10%

| Model | Dimension (AxA) | Base height (B) | Cone height (C) | Height(B+C) | Number of cones |
|---|---|---|---|---|---|
| AB-X503 | 30 x 30 | 3.0 | 0 | 3.0 | Plate |
| AB-X106 | 30 x 30 | 2.0 | 4.0 | 6.0 | 144(12x12) |
| AB-X110 | 60 x 60 | 2.0 | 8.0 | 10.0 | 256(16x16) |
| AB-X120 | 60 x 60 | 3.0 | 17.0 | 20.0 | 81(9x9) |
| AB-X130 | 60 x 60 | 3.0 | 27.0 | 30.0 | 36(6x6) |
| AB-X145 | 60 x 60 | 4.0 | 41.0 | 45.0 | 16(4x4) |
| AB-X160 | 60 x 60 | 7.0 | 53.0 | 60.0 | 9(3x3) |

## Reflectivity

Unit : dB, ±10%

| Model | 0.01 GHz | 0.1 GHz | 0.3GHz | 1GHz | 3GHz | 6GHz | 10GHz | 18GHz | 40GHz |
|---|---|---|---|---|---|---|---|---|---|
| AB-X106 | -2 | -2 | -3 | -8 | -18 | -28 | -35 | -38 | -45 |
| AB-X110 | -2 | -3 | -5 | -15 | -25 | -35 | -40 | -45 | -50 |
| AB-X120 | -3 | -5 | -10 | -20 | -30 | -40 | -45 | -48 | -50 |
| AB-X130 | -12 | -19 | -20 | -30 | -40 | -45 | -48 | -50 | -50 |
| AB-X145 | -13 | -21 | -22 | -38 | -45 | -48 | -50 | -50 | -50 |
| AB-X160 | -14 | -22 | -25 | -40 | -48 | -48 | -50 | -50 | -50 |