



Perseus Tech. International Corp.

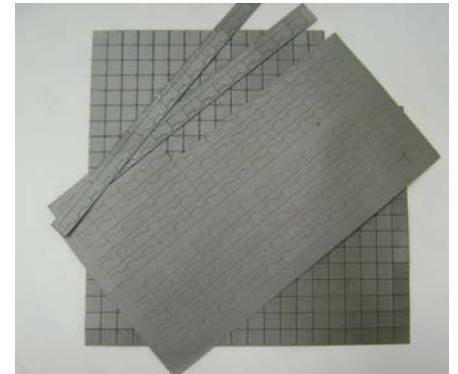
Golden Tech. Tower
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HTR Rubber Absorbers

Description

HTR Rubber Absorber is a series of electrometric absorbers which, typically, absorb -5dB ~ -25dB of normally incident energy at a discrete frequency between 10MHz ~ 70GHz. Based on the tuned frequency, HTR absorber is designed with thickness in the range of 0.1mm up to 4mm.

We also provide special design for the customers' requirement of the frequency, absorbing rate, thickness, etc.



HTR series are newly-developed product that is very efficient way to solve the EMI/RFI/EMC problem for electronic/electric product, notebook \ computer , electronic device , wireless communication device , and even new-generation ultra-thin or mini-portable computer/PDA, digital camera, RFID, NFC, wireless charging device, Millimeter wave device, electric medical device...etc. The product can be provided in sheet or in roll, and also can be pre-cutting to any desired shape. The normal temperature resistance is -40 deg C ~ +100 deg C.

Applications

1. EMI Reduction for Antennas and Electronic Systems (such as LNBS for Satellite System).
2. Antenna Pattern Shaping and False Echo Reductions.
3. The Radiation Hazard Protection.
4. To paste on electric circuit \ connector \ cable socket \ flat cable.
5. To suppress and absorb attenuate electromagnetic waves and noise out through electric circuit.
6. Being available at LCD display, cable modem or wrap cable and wire, also any noise source.
7. Solving for third/ fourth generation (3G/4G/ LTE) Handset RFI problem.
8. Wireless communication equipment \ Blue tooth, LTE, Wimax device.
9. RFID, NFC, or wireless battery charging device
10. Millimeter wave device
11. Electric Medical device



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Application Example of HTR series

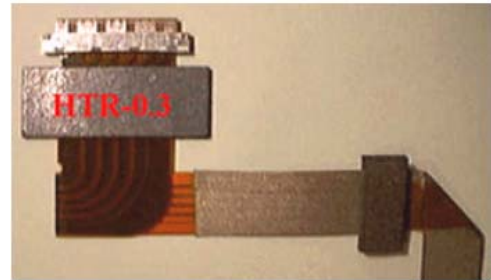
(1) HTR for LCD's EMI problem:

The HTR series can be used as the figure shown.

The HTR series is used to replace the ferrite tile clamp on FPC I/O connector. The conductive coat is taken off near the connector. Such arrangement can absorb radiation at least -5 dB to -12dB for whole system.

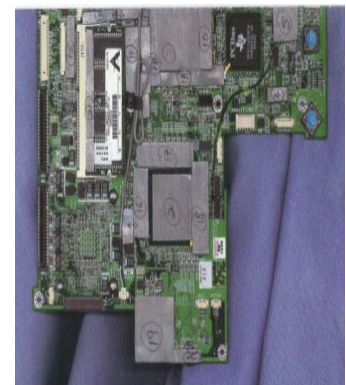
Since the thickness of HTR-03B is 0.3mm, the total thickness of HTR-03B clamp is 0.6 mm only. This means there is no space problem now.

The HTR series also can cut to small pieces and paste on the backside of driving IC of LCD to solve EMI problem.



(2) HTR for mother board EMI/RFI problem:

The HTR series can be used to reduce the EMI/RFI problem of the notebook's mother board. The HTR series also can cut to small pieces and paste on the backside of IC directly. It's easy to be used.





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Typical Commercial Product Specifications

| Part No. | Thickness (mm) | Frequency | Max. Decay (-dB) | Normal Application |
|--------------------|----------------|------------------|------------------|----------------------------------------------------|
| HTR-NFC-01 | 0.1 | 13.56 MHz | 4 | NFC device |
| HTR-RFID-01/025/05 | 0.1/0.25/0.5 | 13.56 MHz | 4/6/10 | NFC, RFID, device |
| HTR-3G-01 | 0.1 | 800MHz ~3GHz | 5 | Mobile phone, Wireless card, Digital camera, chip, |
| HTR-3G-02 | 0.2 | 800MHz ~3GHz | 8 | Mobile phone, Wireless card, Digital camera, chip, |
| HTR-3G-03 | 0.3 | 800MHz ~3GHz | 10 | Mobile phone, Wireless card, Digital camera |
| HTR-3G-G3 | 2 | 850MHz ~2.5GHz | 25 | Shielding box, equipment |
| HTR-03B | 0.3 | 300MHz~500 MHz | 10 | PCB, chip, FPC |
| HTR-04B | 0.4 | 300MHz ~ 500 MHz | 15 | PCB, chip, FPC |
| HTR-04BC | 0.4 | 100MHz ~1GHz | 10 | Electronic Wire |
| HTR-07B | 0.7 | 30MHz ~ 500MHz | 15 | PCB, chip, FPC |
| HTR-09B | 0.9 | 100MHz ~3GHz | 20 | PCB, chip, FPC |
| HTR-2 | 2 | 100MHz ~ 3GHz | 20 | Shielding box, PCB |
| HTR-4 | 4 | 100MHz ~ 3GHz | 25 | Shielding box, PCB |