



Perseus Tech. International Corp.

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HTR Rubber Sheet Absorbers

Description:

HTR Rubber Sheet Absorber is a series of elastomeric absorbers which, typically, absorb -5dB ~ -51dB of normally incident energy at a discrete frequency between 10MHz ~ 6000MHz. Based on the tuned frequency, HTR absorber is designed with thickness in the range of 0.1、0.2、0.3、0.4、0.7、0.9、2 mm. *We also provide special design for the customers' requirement of the frequency, absorbing rate, etc.*



HTR series are newly-developed product that is very efficient way to solve the EMI problem for notebook, electronic device, wireless communication device, digital camera, RFID device and even new-generation ultra-thin or mini-portable computer/PDA. Especial a small piece of HTR series can replace the conductive coat, metal shielding etc, by sticking on these place needed to solve the EMI/RFI/EMC problem and meet strict SAR rule.

The materials are normally provided in 25cm x 25cm which can be readily cut to any desired size. The temperature resistance is -40⁰ C ~ +110⁰ C.

Applications:

- EMI Reduction for Antennas and Electronic Systems (such as LNBS for Satellite System).
- Antenna Pattern Shaping and False Echo Reductions.
- The Radiation Hazard Protection.
- To paste on electric circuit, connector, cable socket, flat cable.
- To suppress and absorb attenuate electromagnetic waves and noise out through electric circuit.
- To paste on individual I.C. parts, chip/chip set, asic, crystal, clock or CPU and noise source components.
- Being available at LCD display, cable modem or wrap cable and wire, also any noise



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source.

- Solving for third/ fourth generation (3G/4G) Handset RFI problem.
- Wireless communication equipment, Bluetooth device, handset, handheld equipment.
- RFID device
- Digital Camera

Application Example of HTR series:

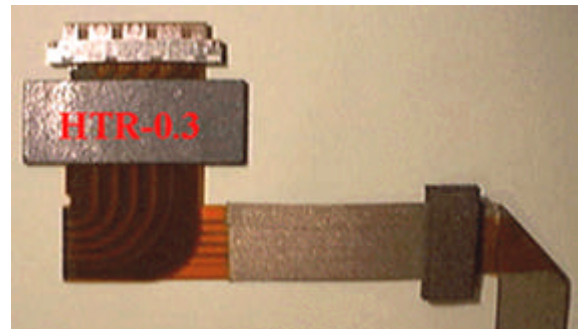
(1) HTR for LCD' s EMI problem

The HTR series can be used as the figure shown. The HTR series used to replace the ferrite tile clamp on FPC I/O connector. The conductive coat is taken off near the connector.

Such arrangement can reduce 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 handset EMI/RFI problem

The HTR-3H-02 can be used on the handset to solve the RMI/RFI problem and make the handset to meet the SAR rule. The HTR-3G-02 thickness is 0.2mm which is easy to used in handset. The HTR-3G-02 can be applied on the emission source such as: CPU, LCD driving IC, battery power module, digital camera module...,etc. to solve the EMI/RFI problem.



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Typical Commercial Product Specifications:

Part No.	Thickness (mm)	Frequency	Max. Decay(-dB)	Normal Application
HTR-3G-01	0.1	30MHz~6GHz	10	Mobile phone, Wireless card, Digital camera
HTR-3G-02	0.2	800MHz ~ 3GHz	10	Mobile phone, Wireless card, Digital camera
HTR-3G-03	0.3	800MHz ~ 3GHz	12	Mobile phone, Wireless card, Digital camera
HTR-3G-03N	0.3	100MHz ~ 6GHz	8	Mobile phone, Wireless card, Digital camera
HTR-3G-015	0.15	13.57MHz	5	RFID device
HTR-3G-G3	2	850MHz ~ 2.5GHz	25	Shielding box, equipment
HTR-03B	0.3	30MHz ~ 500 MHz	10	PCB, chip, FPC
HTR-04B	0.4	30MHz ~ 500 MHz	15	PCB, chip, FPC
HTR-03C/05C/07C	0.3/0.5/0.7	5GHz~7GHz	10	Wireless card
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	10MHz ~ 3GHz	20	Shielding box, PCB