

# Electromagnetic Field (EMF) Radiation: An Unseen Hazard

In this technologically advanced age, humans have come to rely heavily on electronic devices such as mobile phones. This large volume of mobile devices (5 billion in 2010<sup>1</sup>), which uses pulsed, low-frequency microwaves, spells the increased risk of exposure to higher levels of EMF radiation<sup>2</sup> than those found naturally.<sup>3</sup>

## Effect of EMF radiation on Humans

EMF radiation can affect the human body in two manners: thermal and non-thermal. Thermal effects arise when EMF radiation raises the temperature to a point where homeostasis can no longer maintain the body's normal temperature.<sup>2</sup> This is prominent during prolonged use of mobile phones which causes the outer ear to feel hot.

Non-thermal effects occur because the human body is an extremely sensitive electrochemical instrument. Biological electrochemical activities are vulnerable to interference from EMF radiation.<sup>2</sup> Studies have found that individuals exposed to EMFs for long durations may experience various symptoms: headaches, fatigue, depression and anxiety.<sup>3</sup>

In 2011, WHO classified radiofrequency EMF (RF-EMF) as a Grade 2B carcinogen.<sup>4</sup> Evidence of the potential carcinogenicity of RF-EMF:

- The INTERPHONE study found an increased risk of gliomas at the highest exposure levels.<sup>5</sup>
- With excessive use of cell phones, children are 5.2 times more susceptible to brain tumors than those aged above 20.<sup>6</sup>

## Military Technology for Your Safety

The radar absorbing material (RAM) coating developed by the military and used on its planes absorbs RF-EMF emitted by radars. These coatings have been used on stealth fighters, like the Lockheed F-35 and F-22.<sup>7</sup>

RAM is composed of many elements, including ferrites which have the ability to absorb microwaves of different frequencies. Tests measuring the amount of waves reflected off ferrite layers when hit with frequencies between 3.3 and 12.7 GHz show decreases of up to -49.1 dB.<sup>8</sup>

## PMA Anti-Radiation Solutions

Using similar technology, Anhui PMA Investment Co. has developed a series of products aimed to protect humans against excessive exposure to RF-EMF.

- EMC Anti-Radiation Card® - Size of an ATM Card offers a constant halo of protection to the user
- PMA Anti-Radiation Coating® - To be used on wall surfaces exposed to high RF-EMF radiation to protect inhabitants. Can be painted over without affecting its ability to absorb RF-EMF.
- Anti-radiation clothing

The EMC Anti-Radiation Card® is designed for portability and is able to absorb 70.53% of the radiation emitted from phones to the head.<sup>9</sup> This complete protection will result in reducing the chance of cancers caused by RF-EMF.

The anti-radiation clothes come in a range from undergarments, pregnancy smocks and lab coats to uniforms for doctors and nurses. The cloth used has been tested by the Shanghai Institute of Measurement and Testing.<sup>9</sup> These clothes are designed to protect expectant mothers from household RF-EMF, and protect personnel exposed to high amounts of RF-EMF.

## Protecting You Anytime, Anywhere ...

With such a wide range of anti-radiation products, Anhui PMA Investment Company offers complete protection against the unseen hazard of RF-EMF.

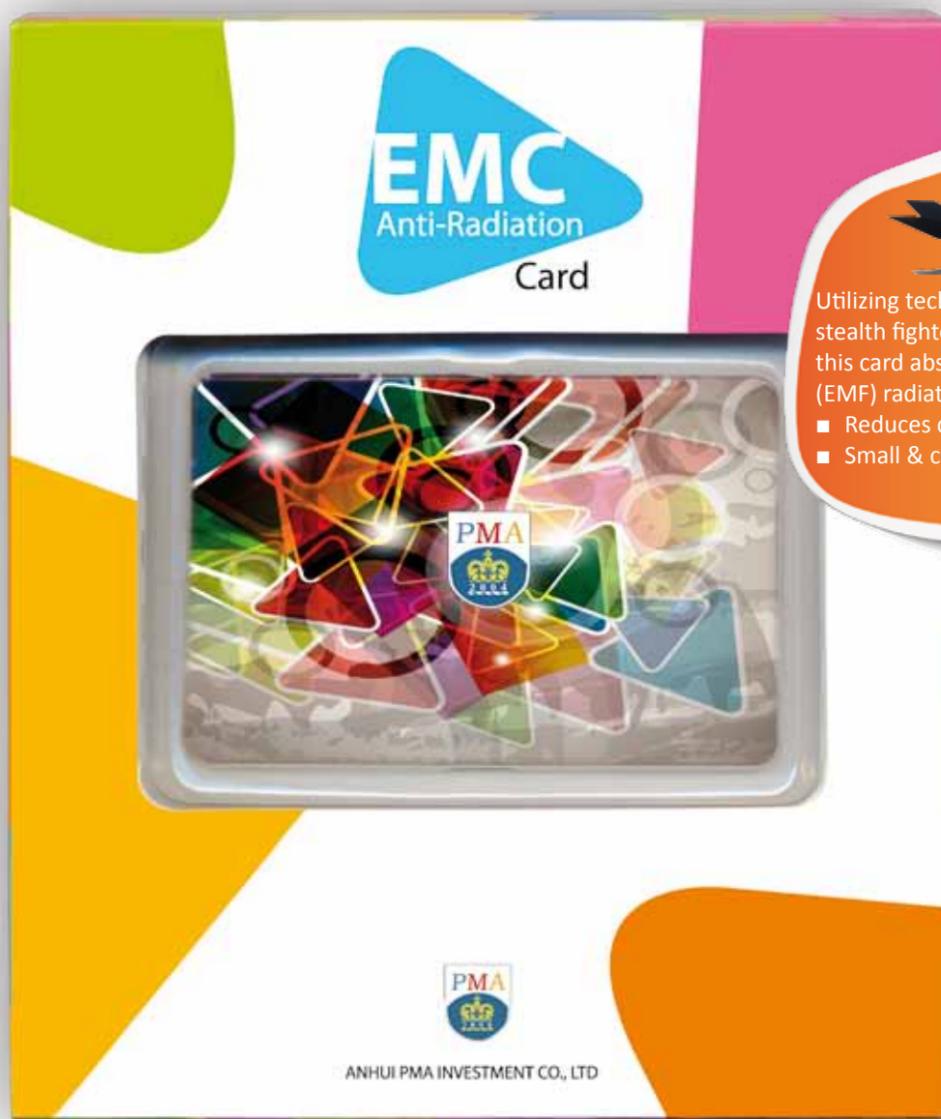
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## RADIOFREQUENCY ELECTROMAGNETIC FIELDS ARE POSSIBLY CARCINOGENIC TO HUMANS (Group 2B)

PRESS RELEASE N° 208 by WHO/IARC May 2011

Full report at : [www.iarc.fr/en/media-centre/pr/2011/pdfs/pr208\\_E.pdf](http://www.iarc.fr/en/media-centre/pr/2011/pdfs/pr208_E.pdf)

## Protect yourself and your loved ones against electromagnetic field radiation



(Actual size)

Utilizing technology used in cloaking stealth fighters from detection by radar, this card absorbs electromagnetic field (EMF) radiation.

- Reduces cell phone radiation by 70%
- Small & convenient to carry



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### Also available in:

Anti-radiation coating: For homes near high-tension cables and base stations, computer and server rooms, hospitals, factories and areas with high amounts of EMF.



Anti-radiation clothing: For doctors, nurses and personnel exposed to high levels of EMF radiation. Also available as pregnancy smocks (as shown).



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