

## Shield Effect for Electromagnetic Wave

It is well known that electric conductive materials have shield effect against electromagnetic wave. Electromagnetic wave is composed from electric field wave, magnetic field wave, and plane wave. In these waves, electric field wave is most important and shield effectiveness against electric field wave is relied on material character. In other hand, effect against magnetic field wave is relied on thickness of part.

Fig.1 is showing shield effectiveness of DIC-PPS electric conductive grades.

Generally the following is general standard for shield effectiveness;

0 – 10 dB: No effectiveness

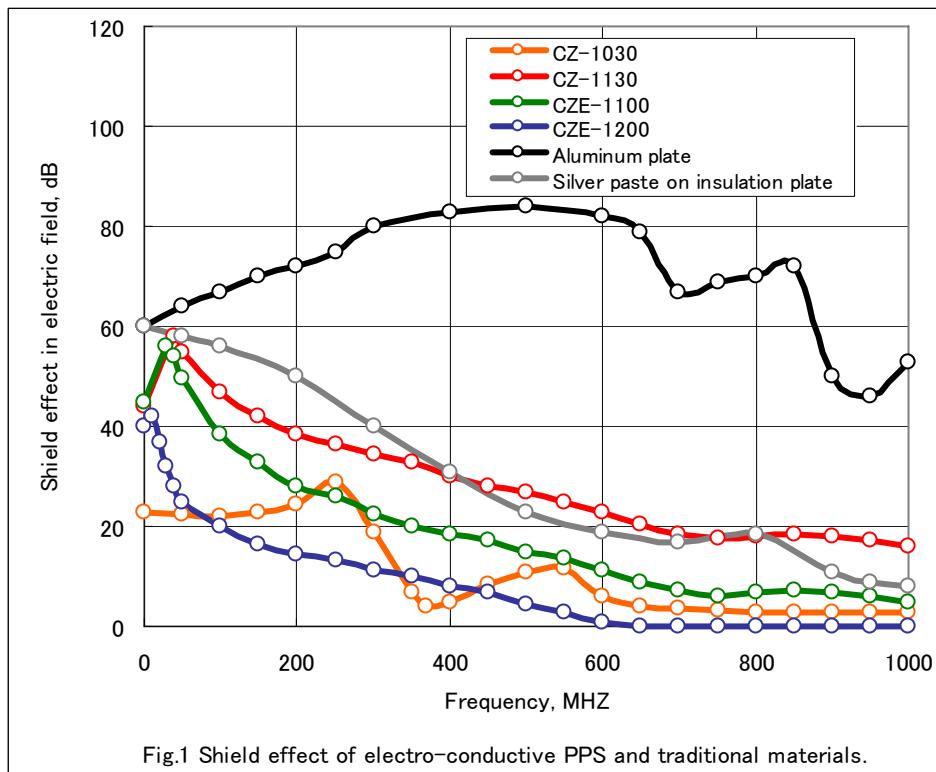
10 – 30 dB: minimum level

30 – 60 dB: normal level

Over 60 dB: superior level

As shown in Fig.1, CZ-1130 and CZE-1100 will be expected tolerable shield effectiveness.

For reference, Fig. 2 is showing same data of silver paste and aluminum plate as general shield material.



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