

Technical Bulletin



New Case Material Change 1800, 1900 and 2000 Series Receivers

Sonion is pleased to announce a material change to the case, cover and mounting plate on our 1800, 1900 and 2000 series receivers.

All models for the above mentioned products are affected.

Description of Change

We have increased the amount of nickel used in both the external case and cover along with the internal mounting plate.

The new material is Supermimphy 80 SP, which consists of about 80% nickel and 20% iron. Our previous material called, Supranhyster 50 SP, consists of about 50% nickel and 50% iron. Because of this material change, we are also annealing the cover to reduce the magnetic radiation.

This 80/20 material is the same material, which we use on our 2300 and 2600 series receivers.

No other processes were changed.

Reason for Change

We changed the case material to reduce the magnetic radiation and the longevity of the component from harsh environments.

Date of Implementation

For all 1800, 1900 and 2000 receiver models, production with the new material started on November 5, 2002. All part numbers will remain the same and we will not make the packages in any specific manner to identify the change.

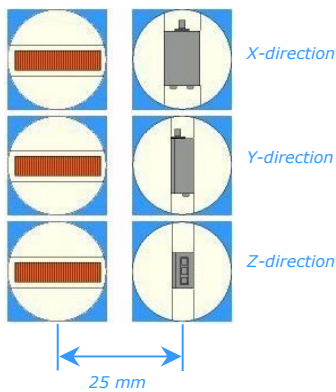
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Results

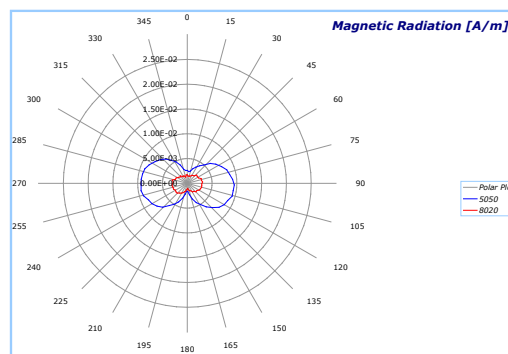
Below please find the validation results from our 1950/2 receiver:

- Number of samples measured: 5
- Drive: Nominal current @ 1 mW
- Frequency: 1430 Hz
- Sensitivity telecoil at 1000 Hz: -53.2 dBV / A/m
- Sensitivity telecoil at 1430 Hz: -49.2 dBV / A/m
- Distance between center receiver and center telecoil: 25 mm

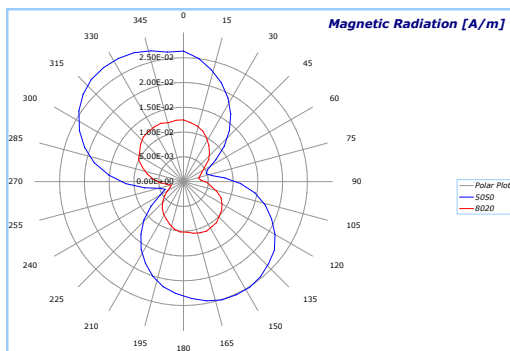
Orientation at 0° (top view)



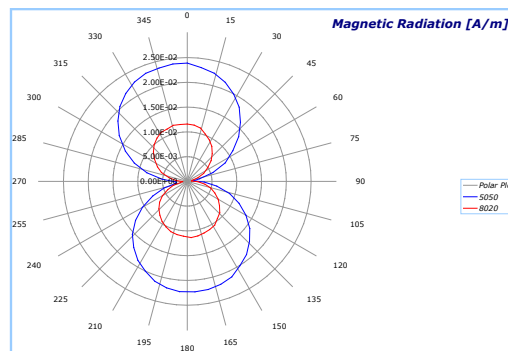
X-direction



Y-direction



Z-direction



Conclusion

The polar patterns above clearly show that the new case material reduces the magnetic radiation performance. Upon request, our validation reports are available for our 1800 and 2000 series receiver.

Further information

Please contact your local sales representative for any questions you may have.