

## PFC & OUTPUT CHOKE CORES

# PRODUCT SUMMARY

### Description

NC series amorphous choke cores are made of thin iron-based amorphous alloy. This type of iron-based amorphous alloys offer several properties that are not paralleled by other competing materials such as ferrites, iron-powder, sendust and permalloys.

The iron-based amorphous alloy shows a high permeability, a high saturation induction, low losses and high curie temperature distinct from the operating one.

However, past days, most engineers in switch-mode power supply design could not use the iron-based amorphous choke cores because of following two critical reasons: one is rather expensive and the other is higher temperature rise when compared superpermalloy and sendusts. Since the above mentioned reasons, iron-based amorphous choke cores have been used in switch-mode power supply for the special purpose for the last few decades.

Now, with the introduction of our new GO-100 series choke core product range, SHINHOM offer the real performance leader. Our expertise in iron-based amorphous choke core manufacturing system has enabled us to significantly reduce achieved ones. Furthermore, now it is available to use amorphous choke cores in switch-mode power supply with a competitive price than other industry standard power cores like sendust.

### Feature

- High saturation flux density of 1.56T.
- Significant size reduction
- Extended bias characteristics can store more higher energy capacity
- Lower hysteresis losses
- Higher efficiency
- Fewer winding turns result in lower copper losses
- UL94-V0 compliant

### Application

- Smoothing chokes for power supplies
- Multiple-winding coupled chokes for cross-regulation in switch-mode power supplies
- PFC chokes for general purpose industrial power supplies
- Output chokes for general purpose industrial power supplies
- PFC chokes for telecommunication power supply rectifiers
- DC / DC converter chokes
- PFC chokes for networking equipment power supplies
- Output chokes for general purpose industrial power supplies
- Differential input chokes
- Flyback transformers