



RELEVANT INFORMATION

The PGA 1331 series, called AMX, is an AMD CPU socket for desktop computers that has been in use for more than 15 years, and the current AM4 supports AMD DT CPU from Zen1 to Zen3 generations. The AM5 LGA1718 is developed to adapt to AMD's next-generation Zen4 PC CPU Socket, Compared to the previous generation, the AM5 uses a new LGA(Land Grid Array) design, which makes the processor easier to install and improves the heat dissipation performance of the processor.

DEREN is the only company in the mainland that can independently complete the development and mass production of CPU socket connectors, and is in the top three in the world.

- Total number of contacts for 1718,0.94×0.81mm interstitial pitch.
- It will work with AMD Ryzen 7000 Series processors to achieve a double leap in performance and efficiency.
- Adopt hot Ball-Attach Process, can greatly reduce the false welding defect rate, optimize the chip space layout and strengthen the stability of the chip signal transmission.
- Finish: Au15” Plating in contact area and 50u"min Ni plating over all.

FEATURE

- Data rate transfer up to 32GT/s.
- Hot Ball-Attach Process.
- Static Pre-load compressive range ILM at 45kgf ~ 55kgf.
- Finish: Au15” Plating in contact area and 50u"min Ni plating over all.
- Operating temperature : -55°C to 110°C.



Socket



Product

TARGET MARKET

- Suitable for AMD next generation Zen4 PC CPU.

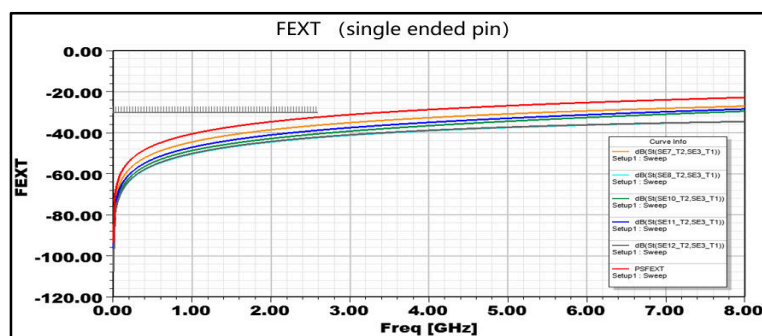
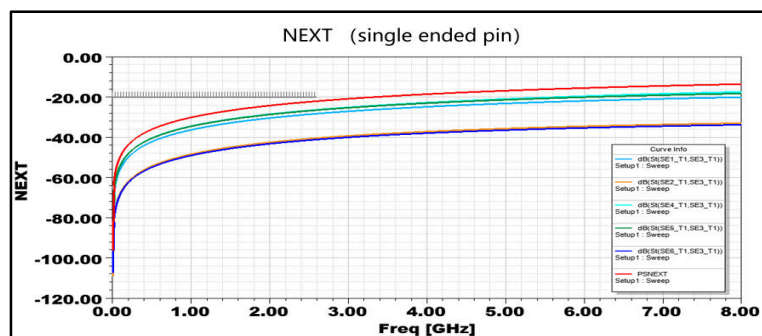
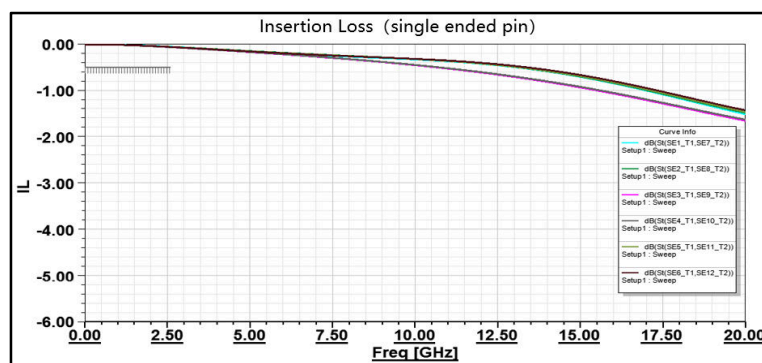
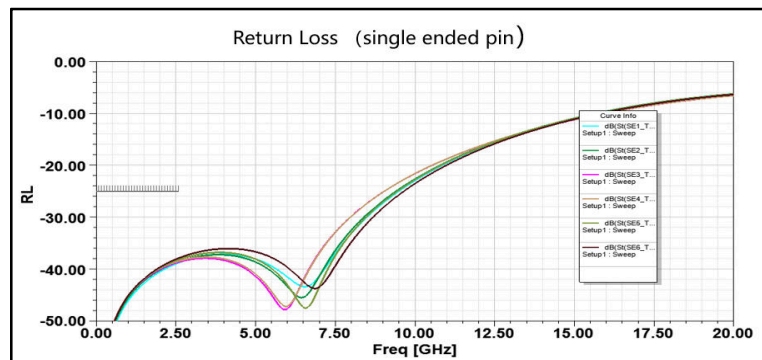
BENEFIT

- AMD Design guidelines 1.3.
- Meet transmission efficiency.
- Fits for customer process.



TECHNICAL INFORMATION

SIGNAL INTEGRITY PERFORMANCE



MECHANICAL PERFORMANCE

- Normal Force : max26 g-f per pin.
- Shear force of tin ball:750g-f min.
- Durability: 50times.

ELECTRICAL PERFORMANCE

- Average Low level contact resistance : $\leq 25m\Omega$.
- Insulation resistance: 1000 M Ohms.
- Dielectric withstanding voltage: 650 Volts RMS .
- Current rating: 1.4A/pin De-rate.

ENVIRONMENTAL

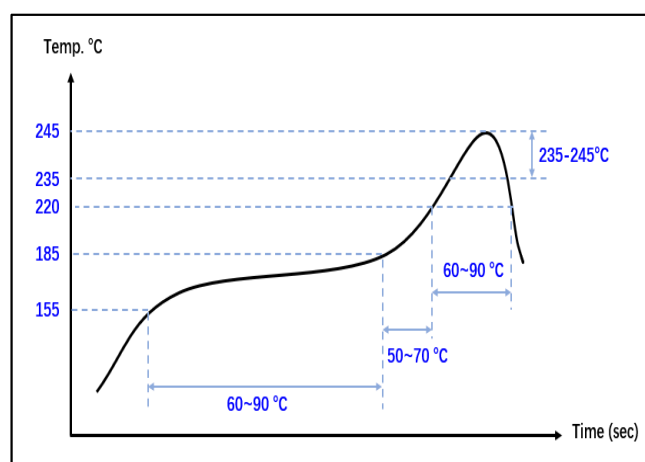
- Flammability: UL 94 V-0.
- Low halogen: 900ppm max. Cl, 900ppm max Br.
- Compliant with RoHS directive 2011/65/EU.
- Operating Temperature: $-55^{\circ}C$ to $+110^{\circ}C$.

SPECIFICATION

- SPEC: AMD Design guidelines 1.3.
- DEREN PRODUCT SPEC: DR-PS-0143.

APPLICATION SPEC

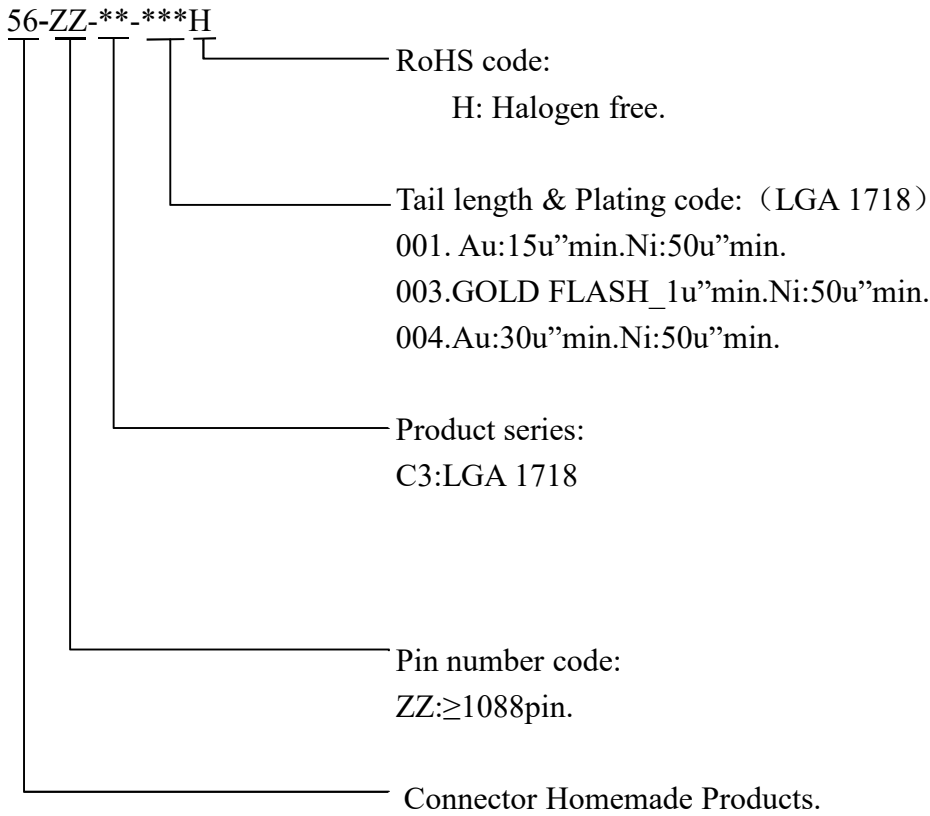
- Reflow temperature profile:





PART NUMBERS & STRUCTURE

Part Number Description:



Product Structure

