

ACF Adhesive Conductive Film Tape 2.0mm x 10m

Model: CR-1620TY-18



Description:

ACF (Anisotropic conductive film) or ACF tape is an epoxy adhesive system used by electronics industry to make electrical and mechanical connections from drive electronics to substrates.

ACF are filled with conductive particles which provides electrical interconnection between pads through the film thickness (z-direction).

The conductive particles are distributed far apart thus not electrically conductive in the plane direction (X&Y) of the film.

ACF Bonding:

During ACF bonding, a combination of heat & pressure is applied on to chip (FPC/IC) for an appropriate time.

Conductive particles (each 3~30um) are compressed between IC and substrate (glass / PCB) while insulating materials pushed away.

This allows the compressed Ni-Au layer on the particles to conduct electricity between the IC and the substrates (z-axis).

The insulated particles are distributed with a minimum chance of electrical shorting in the x-axis and y-axis.

As the epoxy cures conductive particles are trapped into permanent compressed form.

The compressed particles, by their elastic nature, are constantly pushing outwards to maintain good electrical conductivity under different environmental conditions.

Application:

ACF tape is used to connect to a fixed upper and lower electrode (IC) and reach the conduction current, therefore widely used in:

- Monitors
- Mobile phones
- Automotive panels
- LCD TV
- Other thin form displays (LCD/LED/touch screen) related fields.

Specifications:

- Width: 2.0mm
- Roll length: 10m
- Storage temperature: $-10^{\circ}\text{C} \sim +5^{\circ}\text{C}$
- Bonding temperature: $150^{\circ}\text{C} \sim 200^{\circ}\text{C}$
- Bonding pressure: $20\sim 40\text{Kg/cm}^2$
- Bonding time: 10~20 sec

Notes:

1. Sealed and stored at $-10^{\circ}\text{C} \sim +5^{\circ}\text{C}$.
2. After opening the ACF, please defrost it for 30-60 minutes before opening it. When the ACF is thawed to room temperature, open the package.
3. After opening the ACF, and end up from using it, please seal it and put it in the refrigerator.

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