

TECHNICAL BRIEF

BY: AZD ENGINEERING

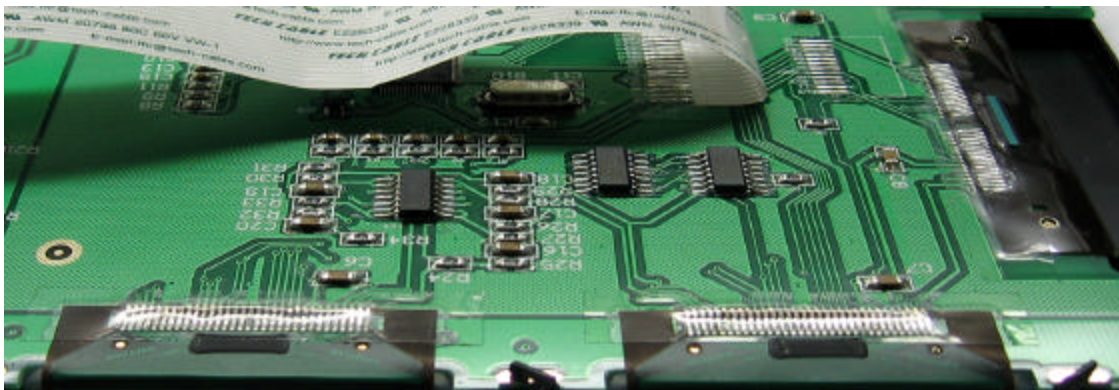


TAB-on-PCB

Moving to larger size displays and preserving cost effectiveness is often a dilemma for LCD customers. For example, chip-on-glass construction is surely least expensive in graphic resolutions of 240x128 and 320x240 pixels, but they have technical limitations. Large COG displays do not have a built-in controller (LSI) IC and other components, so customers must worry about them by designing them externally on their board. When that is a problem, TAB-on-PCB construction might be a good solution.

The Design

Typically TAB modules contain gold bumped driver ICs that are bonded on the FPC instead of the glass. When these TAB packages are paired with a PCB, the overall profile of the display module is reduced significantly. Using TAB-on-PCB displays is greatly advantageous, because customers are spared from having to worry about extra components on their board. Many vital components for the display may thus be populated on the board of the TAB-on-PCB LCD module itself. TAB-on-PCB modules are less expensive than COB modules.



New Releases

AZ Displays announces availability of 5.7" QVGA (320x240 pixels) monochrome LCD of TAB-on-PCB construction, p/n AGM3224J-FC-FBD. The display module features a built-in LCD controller IC Epson SED13700, CCFL backlight, and a total thickness of only 8mm, thanks to TAB-on-PCB (competitors' units normally measure 11 to 13 mm). Specifications are available upon request. Call 949-360-5830.