

# 3M™ Textool™ Flexible Array Solution for Test Sockets (FAST)

## Multiple Use Flexibility in a High Performance Product

The 3M Textool Flexible Array Solution for Test Sockets (FAST) is an adaptable platform that meets the challenges of today's testing and burning-in low volume/high mix array packages or high volume/low mix functional testing. A FAST socket is an upgradeable socket that helps protect a customer's test board investment by anticipating the next generation of integrated circuits (IC) pinouts – by simply switching out the cartridge, test engineers can use existing equipment and test boards, saving both time and money. Moreover, these innovative, custom-designed sockets provide a highly flexible test and burn-in solution, which can help reduce time-to-market for suppliers of ICs.

## Increased Flexibility, Decreased Time and Cost

By incorporating the FAST platform into test equipment, users experience greater flexibility during the test process by taking advantage of the socket's ability to accommodate different IC package thicknesses and sizes, as well as ball pitches and patterns. In addition, by incorporating FAST sockets as part of the initial design foundation, IC suppliers can benefit by then reusing the same test boards for future generation devices, which saves time and is cost effective.

## Key Advantages

### Modular cartridge construction

- Accepts multiple cartridge designs

### Accommodates different:

- IC package thicknesses and sizes
- Ball pitches and patterns
- Non-standard or differing ball pitches

### Adaptable to many needs

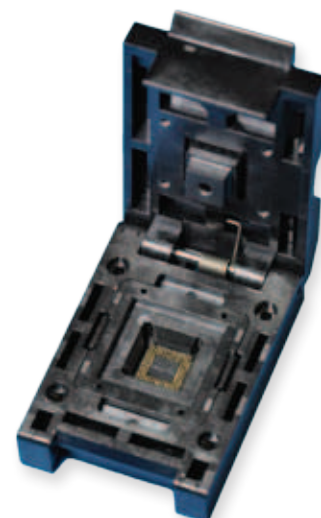
- Pitch conversions
- Power and/or ground distribution
- Power noise decoupling
- Signal Integrity (SI) improvement

### Incorporates cartridges made with 3M™ Embedded Capacitance Material (ECM) which addresses power supply noise and ground distribution issues

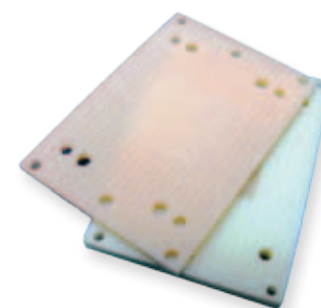
- Lowers impedance of power distribution system
- Dampens board resonances
- Reduces noise on power plane
- Reduces radiated emissions



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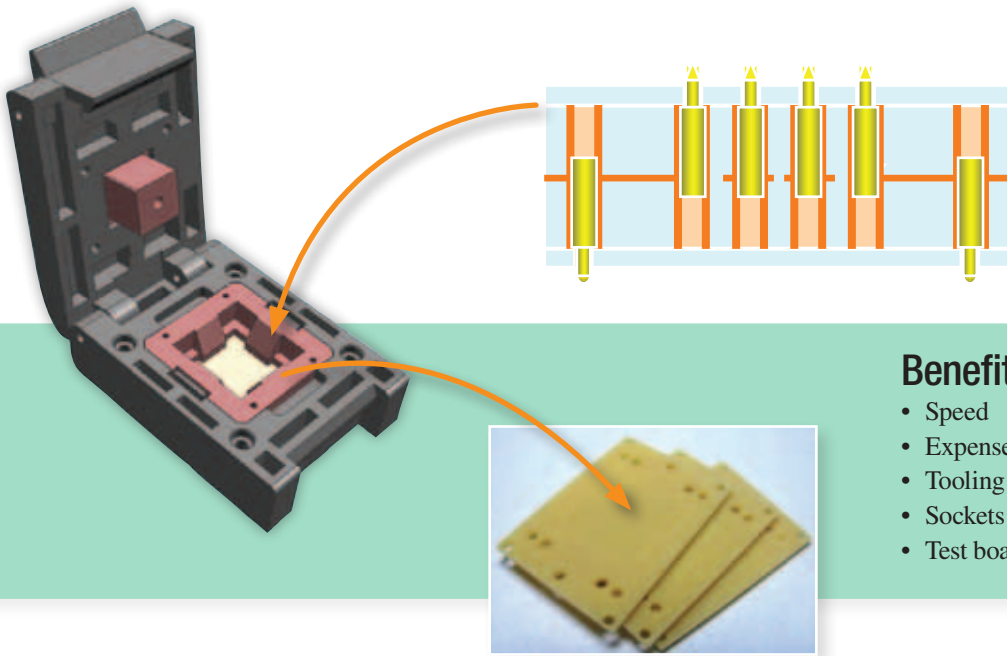


3M™ Pitch-Free Cartridges, made by PCB process



## Upgradeability, flexibility

The 3M™ Textool™ Flexible Array Solution for Test Sockets (FAST) allows a previous cartridge for larger pitch package to be swapped out for a new cartridge with a similar pin pattern but reduced pitch compatible with the new package.



### Benefits:

- Speed
- Expense
- Tooling
- Sockets
- Test boards

# Thickness change

## Low volume high mix testing!

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