

# samtec

**SamArray®**  
HIGH DENSITY  
INTERCONNECTS

(1,27 mm) .050"

YFS-20-03-H-05-SB-K

YFS-20-03-H-08-SB

YFS-30-03-H-10-SB

YFS SERIES

# LOW PROFILE OPEN PIN FIELD SOCKET

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?YFS](http://www.samtec.com?YFS)

### Insulator Material:

Black Liquid Crystal Polymer

### Contact Material:

Phosphor Bronze

### Plating:

Au over 50µ" (1,27 µm) Ni

### Operating Temp Range:

-55°C to +125°C

### Contact Resistance:

10 mΩ

### Working Voltage:

275 VAC when mated with YFT

### Mated Cycles:

200 with YFT

### RoHS Compliant:

No

### Lead-Free Solderable:

No

Mates with:  
YFT, YFW

## TEST RESULTS

Passed 20 year mixed  
flowing gas testing.  
Go to: [www.samtec.com?YFS](http://www.samtec.com?YFS)

1,27 mm pitch YFS/YFT	Rated @ 3dB Insertion Loss	
5 mm Stack Height	with PCB effects*	w/o PCB effects**
Single-Ended Signaling	3.5 GHz / 7 Gbps	20 GHz / 40 Gbps
Differential Pair Signaling	9 GHz / 18 Gbps	20 GHz / 40 Gbps

\*Performance data includes effects of a non-optimized PCB.

\*\*Test board losses de-embedded from performance data.

Performance data for other stack heights and complete test data available at [www.samtec.com?YFS](http://www.samtec.com?YFS) or contact [sig@samtec.com](mailto:sig@samtec.com)

High reliability  
Tiger Eye™  
contacts

TIGER  
EYE  
LITE

(1,27 mm) .050"  
micro pitch

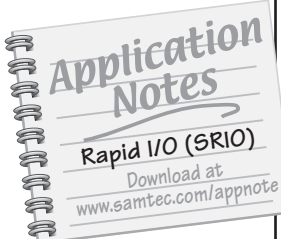
Polarized  
notches

Tin-Lead  
Solder Balls

FinalInch®  
CERTIFIED | 28+  
Gbps

## RECOGNITIONS

For complete scope of  
recognitions see  
[www.samtec.com/quality](http://www.samtec.com/quality)

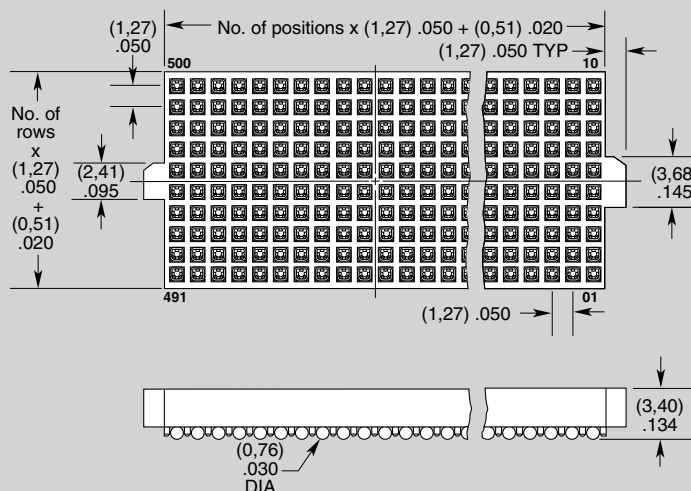


## ALSO AVAILABLE (MOQ Required)

- 30, 40 & 50 positions  
in 5 & 8 rows
  - 3 & 6 rows
- Contact Samtec.

**Note:** Some sizes, styles and  
options are non-standard,  
non-returnable.

YFS	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	ROW OPTION	SB	OTHER OPTION
	-20 = -05, -08, and -10 row	-03 = Standard Insertion Force	-H = 30µ" (0,76 µm) Gold on contact area	-05 = Five Row		-K = Polyimide film Pick & Place Pad
	-30, -40, -50 = -10 row only	-L3 = Low Insertion Force		-08 = Eight Row		-TR = Tape & Reel
				-10 = Ten Row		



Due to technical progress, all designs, specifications and components are subject to change without notice.

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