Open Pin Field Arrays

SEARAY[™] High Speed/High Density Systems

Samtec's SEARAY[™] products are the industry's largest offering of high speed, high density open pin field arrays. They support 28+ Gbps applications and are also Final Inch[®] certified for Break Out Region trace routing recommendations to save designers time and money.

SEARAYTM Open Pin Field Arrays feature a .050" x .050" (1,27 mm x 1,27 mm) pitch grid for maximum grounding and routing flexibility. This system is available in stack heights from 7 mm to 40 mm with up to 500 Edge Rate[®] contacts. Vertical or right angle arrays (SEAM/SEAF Series) and a mating high speed cable assembly (SEAC Series) are available as 50Ω or 100Ω solutions. High retention press fit tails (SEAMP/SEAFP Series) and an 85Ω tuned interconnect (SEAMI Series) offer greater system flexibility. Elevated board stacking up to 40 mm is achieved by Samtec's high speed, high density riser (SEAR Series).

Samtec's Edge Rate[®] contact system increases cycle life and minimizes the effects of broadside coupling, which decreases crosstalk for superior signal integrity performance and impedance control. This rugged contact system is also less prone to damage when "zippered" during unmating. Standard lead-free solder charge simplifies IR reflow termination and improves solder joint reliability.





Features:

- Up to 500 single ended I/Os or 125 differential pairs
- Rugged Edge Rate[®] contact system
- Parallel, perpendicular and coplanar applications
- Stack heights from 7 mm to 40 mm
- · Solder charged terminations for ease of processing
- IPC-A-610F Class 3 solder joint

Connectors

Optional guide posts for blind mating; field termination kits available



Vertical: SEAM, SEAF **85** Ω **Tuned:** SEAMI Cable: SEAC NO. OF ROWS в Α (5,66) (7,06) -04 .278 .223 XXXXX XXXXX (8,20) (9,60) -05. --06 \sim 12,14) .478 (10,74) -08 (14,68) (13,28) A HI MAN -10 No. of positions x (1.27) .050 + (4.98) .196 <u>FRARARA TARARARA</u> Right Angle: SEAM-RA, SEAF-RA Elevated: SEAR NO. OF Δ ITIONS (71,42) 2.812 -50 6 Press Fit: SEAMP. SEAFP POSITIONS в Α PER ROW (30,38) 48,26 -020 (60,96 2.400 (43.08) -030 1.696 <u>המסמממת (ממממממת (</u> _040 (55,78) 2.196 73,66 2.900 (68,48) b. of positions x 1.050 - (1,27). -050 (86,36)

For more High Density Solutions, please visit samtec.com/arrays

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