



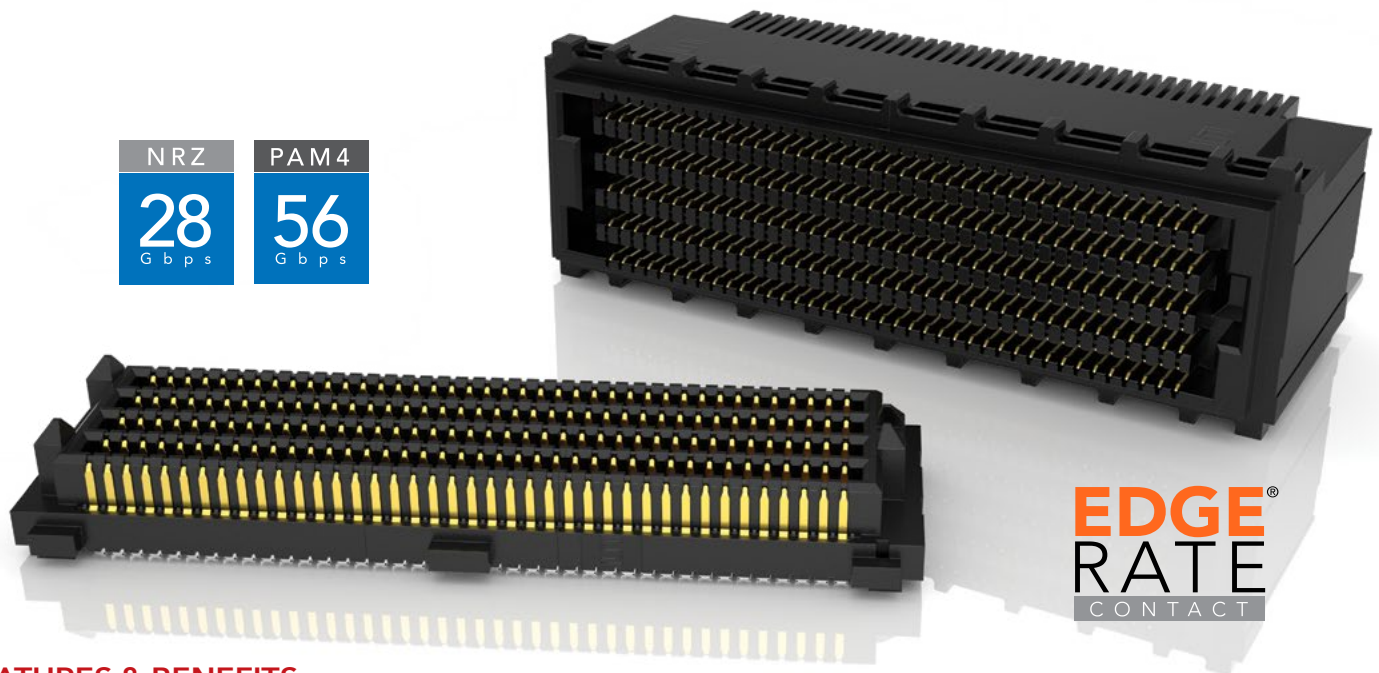
**THE DATASHEET OF
SEAM8-40-S02.0-S-06-2**



SEARAY™ .8mm

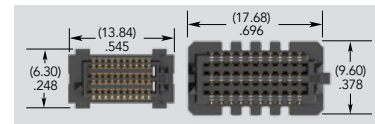
ULTRA HIGH-DENSITY, HIGH-SPEED OPEN-PIN-FIELD ARRAYS

(0.80 mm) .0315" PITCH

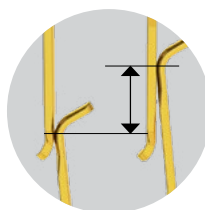


FEATURES & BENEFITS

- 0.80 mm (.0315") pitch grid
- 50% board space savings versus .050" (1.27 mm) pitch arrays
- Performance up to 28 Gbps NRZ/56 Gbps PAM4
- Rugged Edge Rate® contact system
- Up to 500 I/Os
- 7 mm and 10 mm stack heights
- Solder charge terminations for ease of processing
- Lower insertion/withdrawal forces
- Severe Environment Testing qualified (SEAM8/SEAF8); aligns with MIL-DTL-55302. Visit samtec.com/set

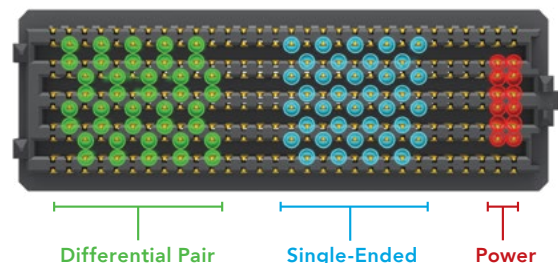


0.80 mm pitch vs. 1.27 mm pitch (60 pins shown)



(1.12 mm) .044" Nominal Wipe

MAXIMUM GROUNDING & ROUTING FLEXIBILITY



KEY SPECIFICATIONS (SEAF8/SEAM8)

| SERIES | INSULATOR MATERIAL | CONTACT MATERIAL | PLATING | OPERATING TEMP RANGE | CURRENT RATING | VOLTAGE RATING | LEAD-FREE SOLDERABLE |
|----------|--------------------|------------------|----------------------------------|----------------------|--|----------------|----------------------|
| SEAM8 | Black LCP | Copper Alloy | Au or Sn over 50 μ" (1.27 μm) Ni | -55 °C to +125 °C | 1.3 A per pin (10 adjacent pins powered) | 220 VAC | Yes |
| SEAF8 | | | | | 1.1 A per pin (10 adjacent pins powered) | 240 VAC | |
| SEAF8-RA | | | | | 1.1 A per pin (10 adjacent pins powered) | 240 VAC | |

(0.80 mm) .0315" PITCH • ULTRA HIGH-DENSITY ARRAYS

| SERIES | NO. PINS PER ROW | LEAD STYLE | PLATING OPTION | NO. OF ROWS | SOLDER TYPE | OPTION | "X"R |
|-------------------|-------------------------------|--|---|-------------|---|--|--|
| SEAM8 Terminal | -10, -20, -30, -40, -50 | -S02.0 = 2 mm Body Height (SEAM8 only) | -L = 10 μm (0.25 μm) Gold on contact area, Matte Tin on solder tail | -04 | -1 = Tin/Lead Alloy Solder Crimp (-STL only) | -GP = Guide Post (-S02.0 lead style only) (Mates with SEAF8-RA-GP) | Tape & Reel is standard. Leave blank for Tape & Reel. |
| | | -S05.0 = 5 mm Body Height (SEAM8 only) | -S = 30 μm (0.76 μm) Gold on contact area, Matte Tin on solder tail | -06 | | | |
| SEAF8 Socket | -10, -20, -30, -40, -50 | -S05.0 = 5 mm Body Height (SEAM8 only) | -S = 30 μm (0.76 μm) Gold on contact area, Matte Tin on solder tail | -08 | -3 = Lead-Free Solder Crimp | -GP = Guide Post (-S02.0 lead style only) (Mates with SEAF8-RA-GP) | -FR = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks) |
| | | -05.0 = 5 mm Body Height (SEAF8 only) | -STL = 30 μm (0.76 μm) Gold on contact, Tin/Lead on solder tail (-1 solder type only) | -10 | | | |

SEAM8
Board Mates:
SEAF8
Cable Mates:
ESCA
Standoffs:
J50





| LEAD STYLE | B |
|------------|-------------|
| -S02.0 | (4.54) .179 |
| -S05.0 | (7.54) .297 |

| NO. OF ROWS | A |
|-------------|--------------|
| -04 | (4.30) .169 |
| -06 | (6.30) .248 |
| -08 | (8.30) .327 |
| -10 | (10.30) .406 |

View complete specifications at: samtec.com?SEAM8

| SERIES | NO. PINS PER ROW | LEAD STYLE | PLATING OPTION | NO. OF ROWS | SOLDER TYPE | OPTION | "X"R |
|---------------------------|-----------------------|--|---|-------------|-----------------------------------|---------------------------------|--|
| SEAF8 | -20, -30, -40, -50 | -S02.0 = 2 mm Body Height (SEAF8 only) | -L = 10 μm (0.25 μm) Gold on contact area, Matte Tin on solder tail | -04 | -2 = Lead-Free Solder Crimp | -GP = Guide Post Holes | Tape & Reel is standard. Leave blank for Tape & Reel. |
| | | -S05.0 = 5 mm Body Height (SEAF8 only) | -S = 30 μm (0.76 μm) Gold on contact area, Matte Tin on solder tail | -08 | | | |
| SEAF8-RA (Right-angle) | -20, -30, -40, -50 | -S05.0 = 5 mm Body Height (SEAF8 only) | -S = 30 μm (0.76 μm) Gold on contact area, Matte Tin on solder tail | -10 | -3 = Lead-Free Solder Crimp | -GP = Guide Post Holes | -FR = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks) |
| | | -05.0 = 5 mm Body Height (SEAF8 only) | -STL = 30 μm (0.76 μm) Gold on contact, Tin/Lead on solder tail (-1 solder type only) | -10 | | | |

SEAF8
Board Mates:
SEAM8
Cable Mates:
ESCA
Standoffs:
J50





MATED HEIGHTS*

| SEAF8 LEAD STYLE | SEAM8 LEAD STYLE | |
|------------------|------------------|--------------|
| | -S02.0 | -S05.0 |
| -05.0 | (7.00) .276 | (10.00) .394 |

*Processing conditions will affect mated height.

View complete specifications at: samtec.com?SEAF8

Notes:
Polyimide Pick & Place Pad standard without specifying -K.
Severe Environment Testing qualified; aligns with MIL-DTL-55302. Visit samtec.com/set

| SERIES | NO. PINS PER ROW | LEAD STYLE | PLATING OPTION | NO. OF ROWS | SOLDER TYPE | OPTION | "X"R |
|---------------------------|-----------------------|--|---|-------------|-----------------------------------|---------------------------------|--|
| SEAF8 | -20, -30, -40, -50 | -S02.0 = 2 mm Body Height (SEAF8 only) | -L = 10 μm (0.25 μm) Gold on contact area, Matte Tin on solder tail | -04 | -2 = Lead-Free Solder Crimp | -GP = Guide Post Holes | Tape & Reel is standard. Leave blank for Tape & Reel. |
| | | -S05.0 = 5 mm Body Height (SEAF8 only) | -S = 30 μm (0.76 μm) Gold on contact area, Matte Tin on solder tail | -08 | | | |
| SEAF8-RA (Right-angle) | -20, -30, -40, -50 | -S05.0 = 5 mm Body Height (SEAF8 only) | -S = 30 μm (0.76 μm) Gold on contact area, Matte Tin on solder tail | -10 | -3 = Lead-Free Solder Crimp | -GP = Guide Post Holes | -FR = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks) |
| | | -05.0 = 5 mm Body Height (SEAF8 only) | -STL = 30 μm (0.76 μm) Gold on contact, Tin/Lead on solder tail (-1 solder type only) | -10 | | | |

SEAF8-RA
(Right-angle)
Board Mates:
SEAM8
Cable Mates:
ESCA







| NO. OF ROWS | A | B |
|-------------|--------------|--------------|
| -04 | (12.48) .491 | (7.46) .294 |
| -08 | (16.48) .649 | (11.46) .451 |
| -10 | (18.48) .728 | (13.46) .530 |

| NO. PINS PER ROW | C | D |
|------------------|---------------|---------------|
| -20 | (29.62) 1.166 | (24.12) .950 |
| -30 | (37.62) 1.481 | (32.12) 1.265 |
| -40 | (45.62) 1.796 | (40.12) 1.580 |
| -50 | (53.62) 2.111 | (48.12) 1.894 |

View complete specifications at: samtec.com?SEAF8-RA

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View SEAM8-40-S02.0-S-06-2 on WIN SOURCE](#)
-  [Samtec Inc. Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management