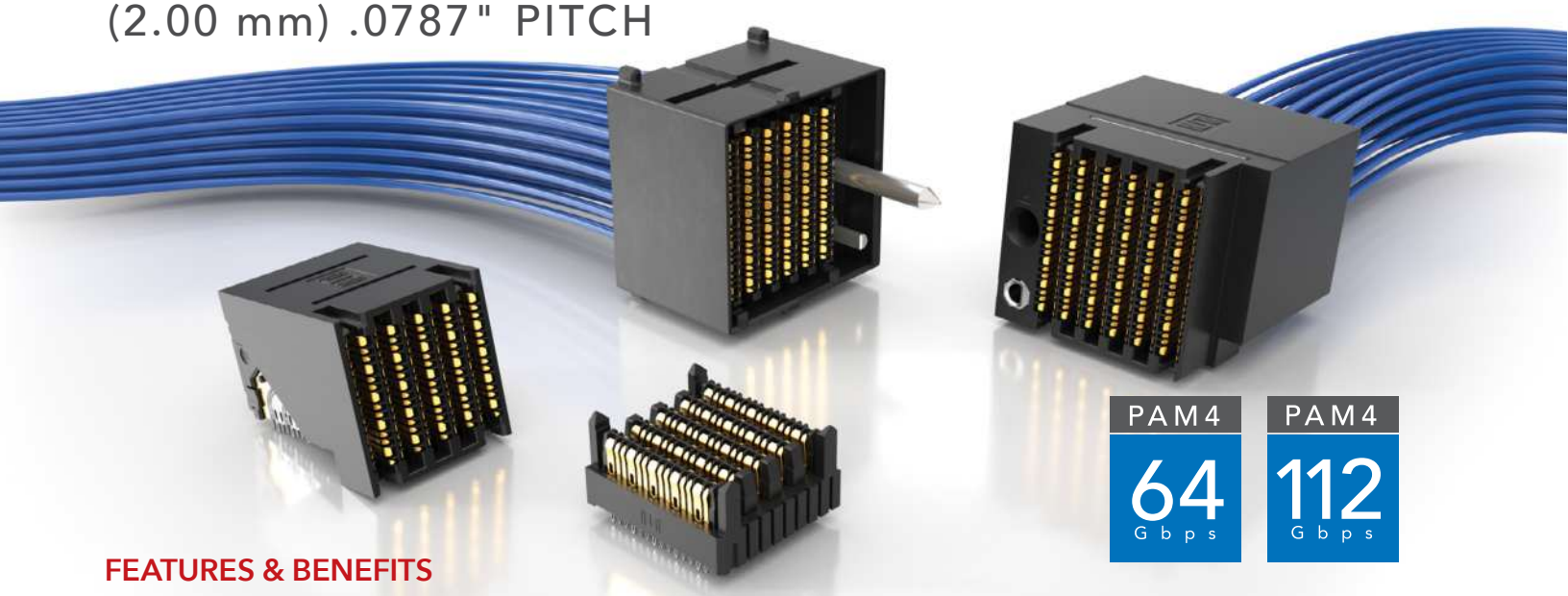
ExaMAX®

HIGH-SPEED BACKPLANE CONNECTOR & CABLE SYSTEMS

(2.00 mm) .0787" PITCH



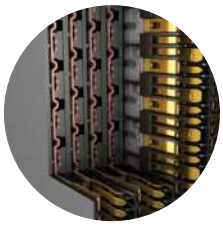
FEATURES & BENEFITS

ExaMAX® High-Speed Backplane System

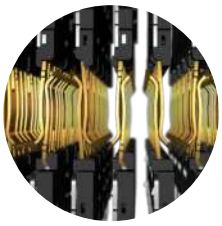
- Meets a variety of industry specifications
- Traditional, coplanar and direct mate orthogonal
- 24 - 72 pair designs (4 and 6 pairs; 6, 8, 10 and 12 columns)
- Shielded wafer design reduces crosstalk and includes one sideband signal per column
- Press-fit tails provide a reliable electrical connection
- PCIe® 6.0/CXL® 3.2 capable

ExaMAX® High-Speed Backplane Cable Assemblies

- 30 & 34 AWG Eye Speed® ultra low skew twinax cable
- 34 AWG Eye Speed Thinax™ ultra low skew twinax cable
- Offers improved signal integrity, increased flexibility and routability
- Highly customizable with modular flexibility
- Reduce costs due to lower layer counts
- PCIe® 6.0/CXL® 3.2 capable



Staggered Differential Pair Design



Two Reliable Points of Contact with a 2.4 mm Wipe



Open-Pin-Field, Coplaner Configuration



In Development: 2 Pair Design for a Lower Profile



In Development: ExaMAX2® 8 Pairs for 112 Gbps PAM4 Performance

KEY SPECIFICATIONS

SERIES	INSULATOR MATERIAL	CONTACT MATERIAL	PLATING	OPERATING TEMP RANGE	CURRENT RATING	VOLTAGE RATING	LEAD-FREE SOLDERABLE
EBTM/EBTF/EBDM	Liquid Crystal Polymer	Copper Alloy	Sn or Au over 50 µ" (1.27 µm) Ni	-55 °C to +105 °C	4 A per pin	150 VAC/212 VDC	Yes
EPTT/EPTS	High Temperature Thermoplastic	Copper Alloy	Sn or Au over 50 µ" (1.27 µm) Ni	-55 °C to +105 °C	14.1 A per pin	150 VAC/212 VDC	Yes
EBCM/EBCF	Liquid Crystal Polymer	Copper Alloy	Au over 50 µ" (1.27 µm) Ni	-40 °C to +105 °C	2.6 A per pin	125 VAC/177 VDC	N/A

PCI-SIG®, PCI Express® and the PCIe® design marks are registered trademarks and/or service marks of PCI-SIG.

Unless otherwise approved in writing by Samtec, all parts and components are designed and built according to Samtec's specifications which are subject to change without notice.

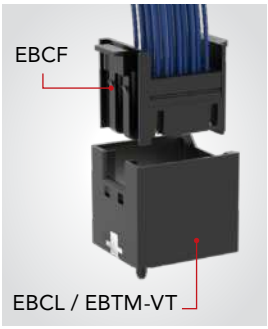
ExaMAX®

LATCHING SHROUDS

EBCL	–	NO. OF PAIRS	–	NO. OF COLUMNS
Vertical Latching Shroud		–4, –6		–06, –08, –10, –12 (-12 column only available in -6 pairs)

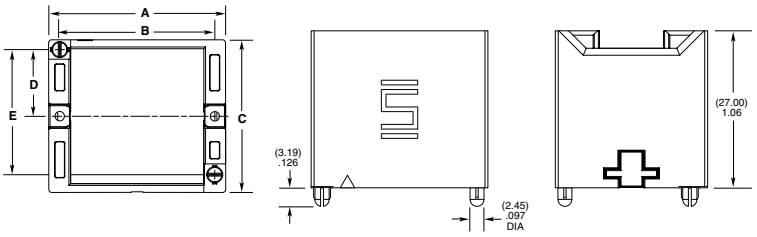
EBCL

Use with:
EBCF, EBTM-V



NO. OF COLUMNS	A	B
–06	(22.40) .882	(18.66) .734
–08	(26.40) 1.039	(22.66) .892
–10	(30.40) 1.197	(26.66) 1.050
–12	(34.40) 1.354	(30.66) 1.207

NO. OF PAIRS	C	D	E
–4	(26.20) 1.031	(11.45) .451	(21.50) .846
–6	(33.40) 1.315	(15.05) .593	(28.70) 1.130

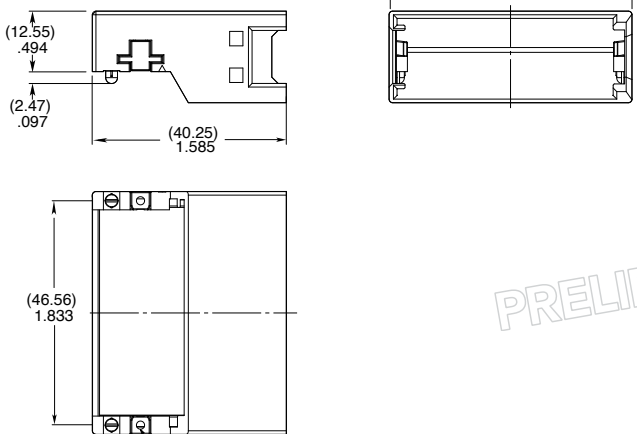


EBCL	–	NO. OF PAIRS	–	NO. OF COLUMNS	–	RA
Right-angle Latching Shroud		–02		–20		

EBCL

Use with:
EBCF, EBTM-RA





PRELIMINARY

Notes:
Some lengths, styles and options are non-standard, non-returnable.

ExaMAX® is a registered trademark of AFCI.

View complete specifications at: **samtec.com?EBCL**

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