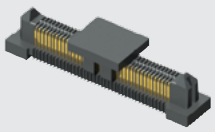
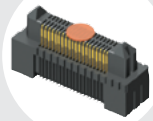
samtec

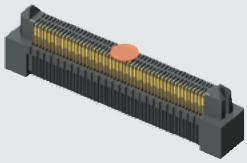
EDGE RATE® CONTACT



ERM5–040–02.0–L–DV–P–TR



ERM5–020–05.0–L–DV–K–TR



ERM5–050–05.0–L–DV–K–TR

(0.50 mm) .0197"

ERM5 SERIES

RUGGED HIGH-SPEED HEADER

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?ERM5

Insulator Material:
Black LCP
Terminal Material:
Phosphor Bronze or BeCu
Plating:
Au or Sn over
50 µ" (1.27 µm) Ni
Current Rating (-DV to -DV):
1.5 A per pin
(1 pin powered per row)
Current Rating (-DV to -RA):
1.6 A per pin
(1 pin powered per row)
Operating Temp Range:
-55 °C to +125 °C
Voltage Rating:
194 VAC mated with ERF5
RoHS Compliant:
Yes

PROCESSING

Lead–Free Solderable:
Yes
SMT Lead Coplanarity:
(0.10 mm) .004" max (010-040)
(0.13 mm) .005" max (050-075)

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality

FILE NO. E111594

ALSO AVAILABLE
(MOQ Required)

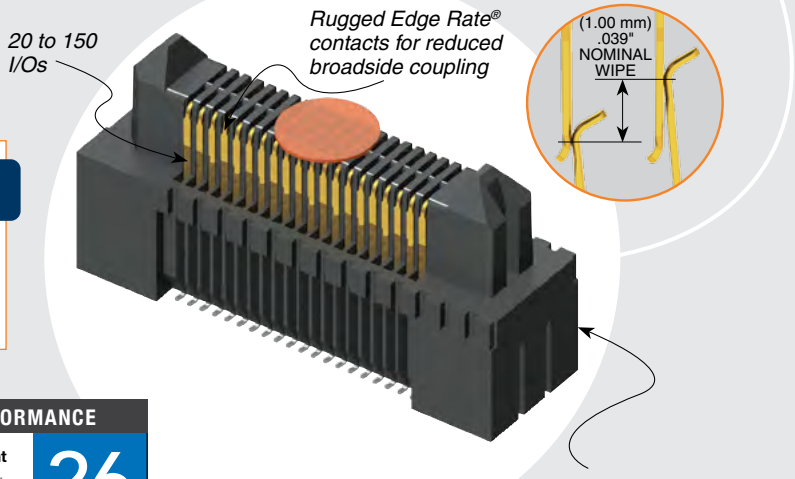
- Friction Lock
- Weld Tab
- Other platings

Contact Samtec.

Mates with:
ERF5

RUGGEDIZED BY SAMTEC

- Edge Rate® contacts
- High contact wipe



HIGH-SPEED CHANNEL PERFORMANCE

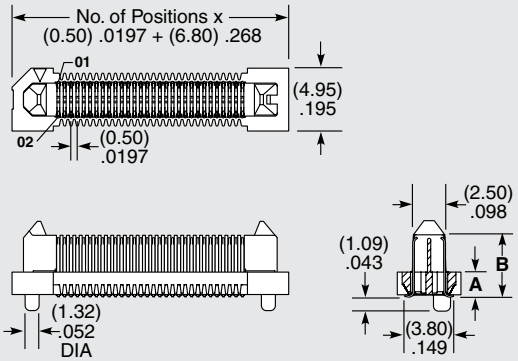
ERM5/ERF5 @ 7 mm Mated Stack Height

Rating based on Samtec reference channel. For full SI performance data visit Samtec.com or contact SIG@samtec.com

26 Gbps

ERM5	NO. OF POSITIONS PER ROW	LEAD STYLE	PLATING OPTION	DV	PICK & PLACE PAD	TR
	–010, –020, –030, –040, –050, –060, –070, –075	–02.0 = 2 mm Body Height –04.0 = 4 mm Body Height –05.0 = 5 mm Body Height	–L = 10 µ" (0.25 µm) Gold on contact, Matte Tin on tail		(Required in callout) –K = (3.50 mm) .138" DIA Polyimide Film Pick & Place Pad (–04.0 & –05.0 lead style only) –P = Plastic Pick & Place Pad (–02.0 lead style only) (–010 postions not available)	

MATED HEIGHT*		
ERM5 LEAD STYLE	ERF5 LEAD STYLE	
	–05.0	–07.0
–02.0	(7.00) .276	(9.00) .354
–04.0	(9.00) .354	(11.00) .433
–05.0	(10.00) .394	(12.00) .472
*Processing conditions will affect mated height.		



LEAD STYLE	A	B
–02.0	(1.94) .076	(4.84) .191
–04.0	(3.94) .155	(6.84) .269
–05.0	(4.94) .194	(7.84) .309

Notes:
Patented

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

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