



(0,50 mm) .0197"

ERF5, ERF5-RA SERIES

ERF5-050-01-L-D-RA-TR



ERF5-010-01-L-D-RA-TR



ERF5-010-05.0-L-DV-K-TR

RUGGED HIGH SPEED SOCKET

Mates with:
ERM5

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?ERF5 or www.samtec.com?ERF5-RA

Insulator Material:

Black LCP

Terminal Material:

BeCu

Plating:

Au or Sn over

50µ" (1,27 µm) Ni

Current Rating:

1.9A per contact

@ 80°C ambient

Operating Temp Range:

-55°C to +125°C

Voltage Rating:

194 VAC mated with ERM5

RoHS Compliant:

Yes

Processing:

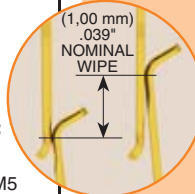
Lead-Free Solderable:

Yes

SMT Lead Coplanarity:

(0,10 mm) .004" max (010-040)

(0,13 mm) .005" max (050-075)

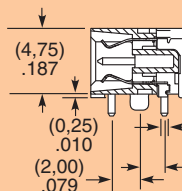
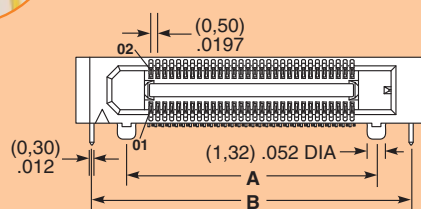
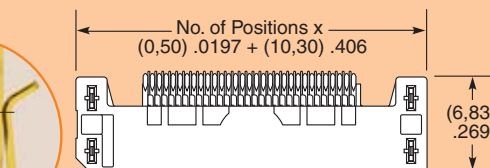


ERF5 — NO. OF POSITIONS PER ROW — 01 — PLATING OPTION — D — RA — TR

—010, —020, —030, —040, —050

—L
= 10µ" (0,25 µm)
Gold on contact,
Matte Tin on tail

—TR
= Tape & Reel Packaging



Note: Other Gold plating options available. Contact Samtec.



NO. OF POSITIONS	A	B
—010	(8,00) .315	(13,00) .512
—020	(13,00) .512	(18,00) .709
—030	(18,00) .709	(23,00) .906
—040	(23,00) .906	(28,00) 1.102
—050	(28,00) 1.102	(33,00) 1.299

APPLICATION SPECIFIC OPTION

- Friction Lock (—DV only)
 - Weld Tab (—DV only)
- Call Samtec.



ERM5/ERF5 7 mm Stack Height	Rated @ 3dB Insertion Loss	
	with PCB effects*	w/o PCB effects**
Single-Ended Signaling	10.5 GHz / 21 Gbps	13.5 GHz / 27 Gbps
Differential Pair Signaling	9.5 GHz / 19 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?ERF5 or contact sig@samtec.com

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

ERF5 — NO. OF POSITIONS PER ROW — LEAD STYLE — PLATING OPTION — DV — K — TR

—010, —020, —030, —040, —050, —060, —070, —075

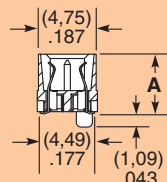
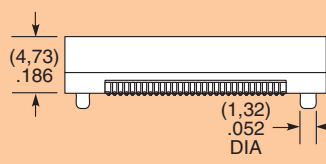
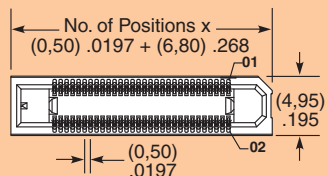
—05.0
= 5 mm Body Height

—07.0
= 7 mm Body Height
(Available up to 50 positions only)

—L
= 10µ" (0,25 µm)
Gold on contact,
Matte Tin on tail

—K
= (6,00 mm) .236" DIA
Polyimide Film
Pick & Place Pad

—TR
= Tape & Reel Packaging



Note: Other Gold plating options available. Contact Samtec.

LEAD STYLE	A
—05.0	(4,91) .193
—07.0	(6,91) .272

MATED HEIGHT*			
ERF5 LEAD STYLE	ERM5 LEAD STYLE		
	—02.0	—04.0	—05.0
—05.0	(7,00) .276	(9,00) .354	(10,00) .394
—07.0	(9,00) .354	(11,00) .433	(12,00) .472

*Processing conditions will affect mated height.

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

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