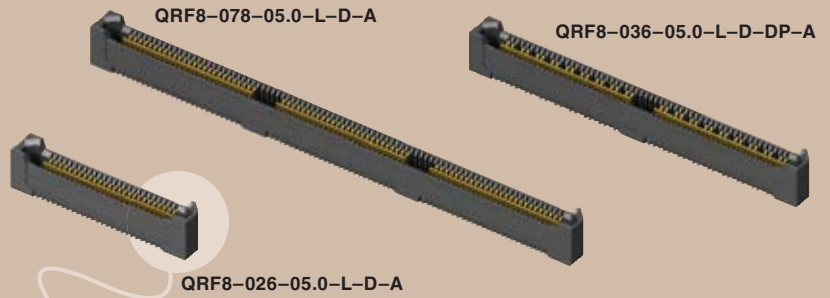




(0,80 mm) .0315"

QRF8 SERIES



# SLIM BODY GROUND PLANE SOCKET



## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?QRF8](http://www.samtec.com?QRF8)

**Insulator Material:** Black LCP



**Contact Material:** BeCu

**Ground Plane Material:** Phosphor Bronze

**Plating:** Au or Sn over

50µ" (1,27 µm) Ni

**Current Rating:** 2.0A per contact @ 80°C ambient

(6 contacts powered)

**Operating Temp Range:** -55°C to +125°C

**Voltage Rating:** 215 VAC

**RoHS Compliant:** Yes

**Processing:** Lead-Free Solderable: Yes

**SMT Lead Coplanarity:** (0,10 mm) .004" max (018-026)

(0,15 mm) .006" max (036-078)

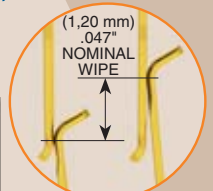
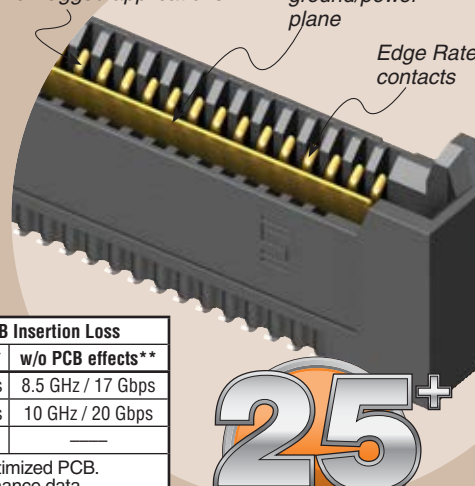
**Board Mates:** QRM8, EQRD



Increased wipe for rugged applications

Integral ground/power plane

Edge Rate™ contacts



QRM8/QRF8 7 mm Stack Height	Type	Rated @ 3dB Insertion Loss	
		with PCB effects*	w/o PCB effects**
Single-Ended Signaling	-D	9.5 GHz / 19 Gbps	8.5 GHz / 17 Gbps
Differential Pair Signaling	-D	8.5 GHz / 17 Gbps	10 GHz / 20 Gbps
Differential Pair Signaling	-DP	9 GHz / 18 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?QRF8](http://www.samtec.com?QRF8) or contact [sig@samtec.com](mailto:sig@samtec.com)

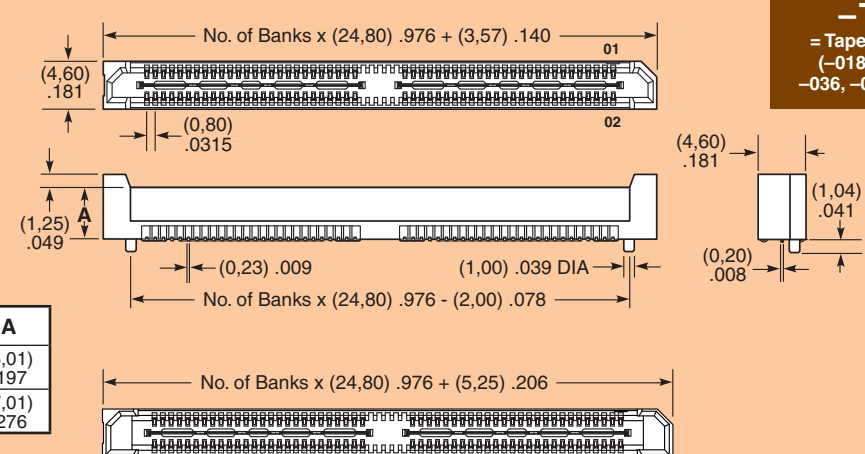
MATED HEIGHT*			
QRF8 LEAD STYLE	QRM8 LEAD STYLE		
	-02.0	-05.0	-07.0
-05.0	(7,00) .276	(10,00) .394	(12,00) .472
-07.0	(9,00) .354	(12,00) .472	(14,00) .551

\*Processing conditions will affect mated height.

QRF8	PINS PER ROW NO. OF PAIRS	LEAD STYLE	PLATING OPTION	TYPE	A	OTHER OPTION
	-026, -052, -078 (52 total pins per bank = -D)  -018, -036, -054 (18 pairs per bank = -D-DP)	-05.0 = 5 mm Body Height  -07.0 = 7 mm Body Height	-L = 10 µ" (0,25 µm) Gold on contact, Matte Tin on tail	-D = Single-Ended  -D-DP = Differential Pair		-GP = Guide Post (Requires -GP on mating connector)  -K = (5,00 mm) .197" DIA Polyimide Film Pick & Place Pad  -TR = Tape & Reel (-018, -026, -036, -052 only)

Note: Other Gold plating options available. Contact Samtec.

- Edge Rate™ contacts
- Increased contact wipe
- 10 year MFG
- Guide post option



LEAD STYLE	A
-05.0	(5,01) .197
-07.0	(7,01) .276

Note: 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.

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