

**QRM8 SERIES**

**(0.80 mm) .0315"**

# SLIM BODY GROUND PLANE HEADER

## SPECIFICATIONS

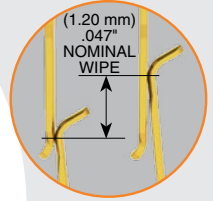
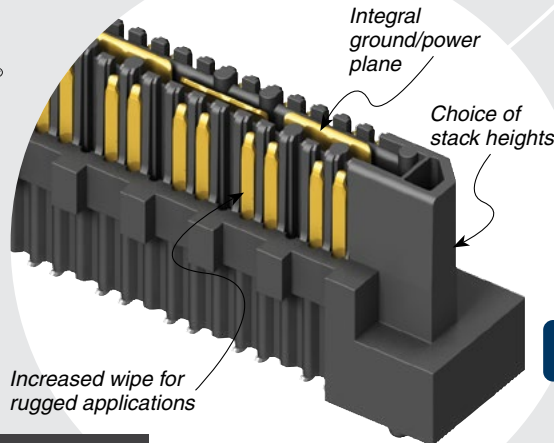
For complete specifications and recommended PCB layouts see [www.samtec.com?QRM8](http://www.samtec.com?QRM8)

- Insulator Material:** Black LCP
- Terminal & Ground Plane Material:** Phosphor Bronze
- Plating:** Au or Sn over 50 μ" (1.27 μm) Ni
- Current Rating:** Contact: 2.2 A per pin (2 pins powered) Ground: 8.5 A per ground plane (1 ground plane powered)
- Operating Temp Range:** -55 °C to +125 °C
- Voltage Rating:** 215 VAC
- RoHS Compliant:** Yes

**Board Mates:** QRF8

**Cable Mates:** EQRD

**EDGE RATE**  
CONTACT



- Edge Rate® contacts
- Increased contact wiper
- 10 year MFG
- Guide post option

### HIGH-SPEED CHANNEL PERFORMANCE

QRM8-DP/QRF8-DP @ 10 mm Mated Stack Height

Rating based on Samtec reference channel. For full SI performance data visit [Samtec.com](http://Samtec.com) or contact SIG@samtec.com

**28**  
Gbps

### ALSO AVAILABLE (MOQ Required)

- Other platings
- Contact Samtec.

## PROCESSING

- Lead-Free Solderable:** Yes
- SMT Lead Coplanarity:** (0.10 mm) .004" max (018-026) (0.15 mm) .006" max (036-078)\*
- \*(.004" stencil solution may be available; contact IPG@samtec.com)

## RECOGNITIONS

For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)



## PROTOCOLS

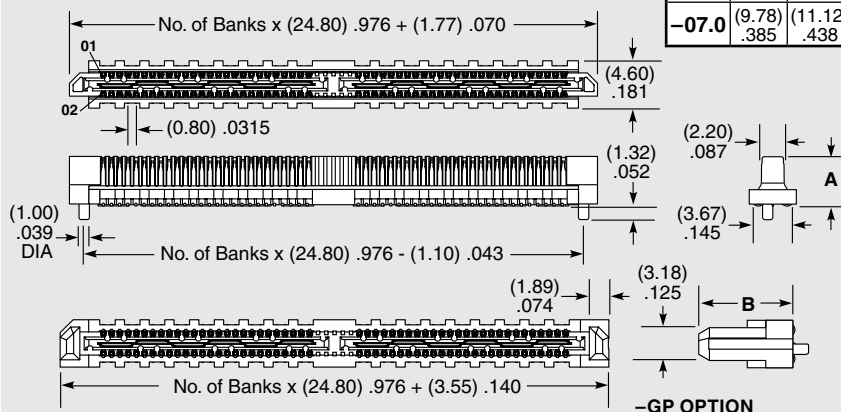
- 100 GbE

QRM8 LEAD STYLE	MATED HEIGHT*	
	QRF8 LEAD STYLE -05.0	-07.0
-02.0	(7.00) .276	(9.00) .354
-05.0	(10.00) .394	(12.00) .472
-07.0	(12.00) .472	(14.00) .551

\*Processing conditions will affect mated height. See SO Series for board space tolerances.

QRM8	PINS PER ROW NO. OF PAIRS	LEAD STYLE	PLATING OPTION	TYPE	A	OTHER OPTION
	-026, -052, -078 (52 total pins per bank = -D)	-02.0 = 2 mm Body Height (Not available with -054 & -078 positions)	-L = 10 μ" (0.25 μm) Gold on contact, Matte Tin on tail	-D = Single-Ended		-GP = Guide Post (Requires -GP on mating connector)
	-018, -036, -054 (18 pairs per bank = -D-DP)	-05.0 = 5 mm Body Height		-D-DP = Differential Pair		-K = (5.00 mm) .197" DIA Polyimide Film Pick & Place Pad
		-07.0 = 7 mm Body Height				-TR = Tape & Reel (-018, -026, -036, -052 only)

LEAD STYLE	A	B
-02.0	(4.81) .189	(6.12) .241
-05.0	(7.81) .307	(9.12) .359
-07.0	(9.78) .385	(11.12) .438



## POWER/SIGNAL APPLICATION



Compatible with UMPT/UMPS for flexible two-piece power/signal solutions

**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.

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)

All parts within this catalog are built to Samtec's specifications. Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.