

**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 μm (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)

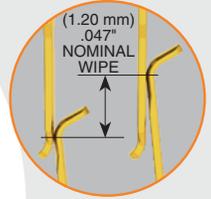
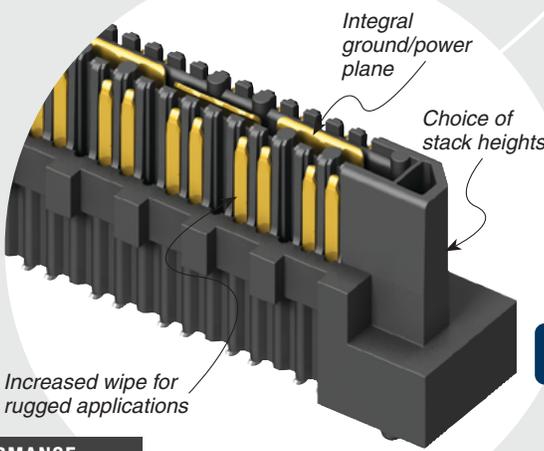
**Operating Temp Range:**  
-55 °C to +125 °C

**Voltage Rating:**  
215 VAC

**RoHS Compliant:**  
Yes

**Board Mates:**  
QRF8

**Cable Mates:**  
EQRD



**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](mailto:SIG@samtec.com)

**28**  
Gbps

**ALSO AVAILABLE (MOQ Required)**

- Other platings

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

**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](mailto:IPG@samtec.com))

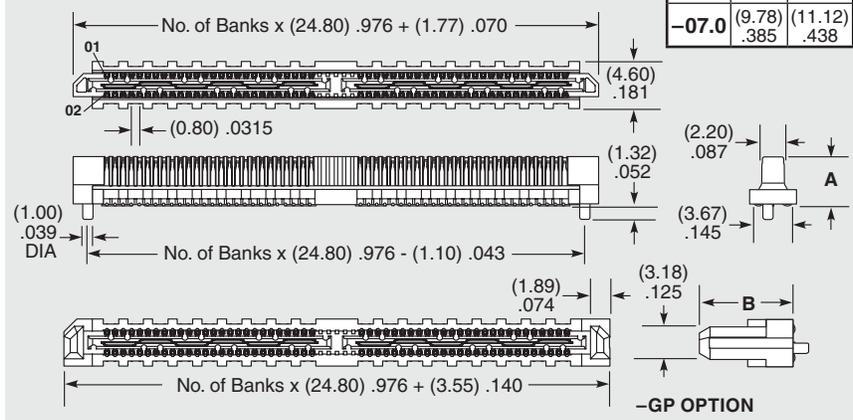
**RECOGNITIONS**

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

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

MATED HEIGHT*		
QRM8 LEAD STYLE	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.



**Notes:**  
Patented

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

**POWER/SIGNAL APPLICATION**

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

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