



QRM8-078-05.0-L-D-A

QRM8-036-05.0-L-D-DP-A-K

QRM8-026-02.0-L-D-A

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

50µ" (1,27 µm) Ni

### Current Rating:

Contact:

2.2 A per pin

(1 pin powered per row)

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

### Processing:

Lead-Free Solderable:

Yes

### SMT Lead Coplanarity:

(0,10 mm) .004" max (018-026)  
(0,15 mm) .006" max (036-078)

## RECOGNITIONS

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



FILE NO. E11594

## ALSO AVAILABLE (MOQ Required)

- Other platings
- Contact Samtec.

### MATED HEIGHT\*

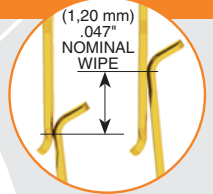
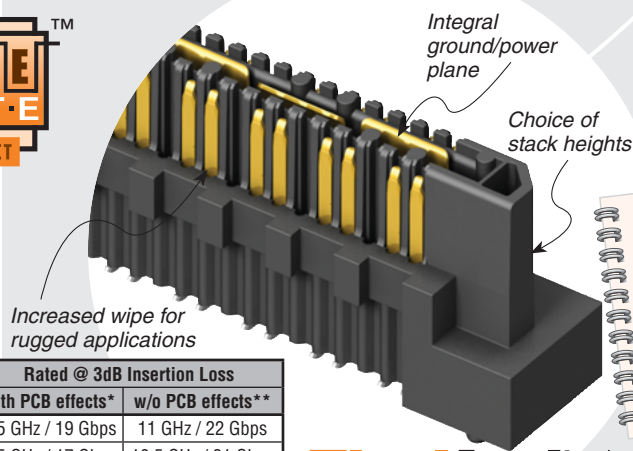
QRM8 LEAD STYLE	QRF8 LEAD STYLE	
	-05.0	-07.0
-02.0	(7,00) .276	(9,00) .354
-05.0	(10,00) .394	(12,00) .472
-07.0	(12,00) .472	(14,00) .551

\*Processing conditions will affect mated height.

Note: Patented

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

Board Mates:  
QRF8, EQRD



**Protocols Supported**

100 GbE

Download app notes at [www.samtec.com/appnote](http://www.samtec.com/appnote)  
Contact SIG @ samtec.com for questions on protocols

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	11 GHz / 22 Gbps
Differential Pair Signaling	-D	8.5 GHz / 17 Gbps	10.5 GHz / 21 Gbps
Differential Pair Signaling	-DP	9 GHz / 18 Gbps	17.5 GHz / 35 Gbps

\*Performance data includes effects of a non-optimized PCB.  
\*\*Test board losses de-embedded from performance data.

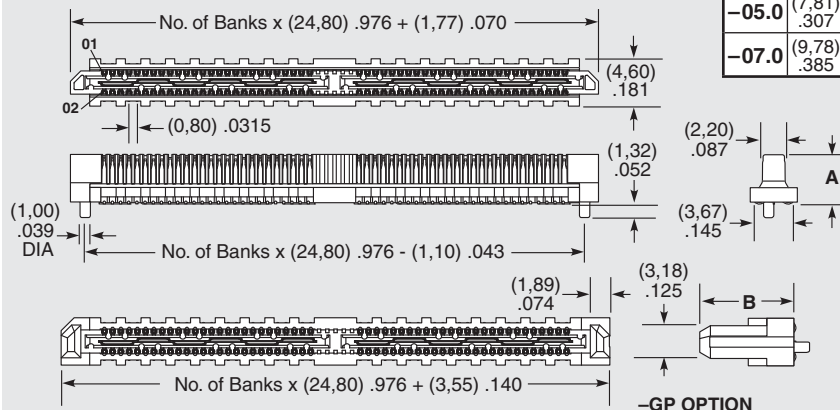
Performance data for other stack heights and complete test data available at [www.samtec.com?QRM8](http://www.samtec.com?QRM8) or contact [sig@samtec.com](mailto:sig@samtec.com)

**Final Inch**  
CERTIFIED

28+  
Gbps

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 = 10µ" (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



**RUGGEDIZED**  
by SAMTEC

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