

(0,80mm) .0315"

QRM8 SERIES

QRM8-078-05.0-L-D-A

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

QRM8-026-02.0-L-D-A

# 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" (1,27µm) Ni

### Current Rating:

2.0A @ 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:

(0,10mm) .004" max (018-026)

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



Board Mates:  
QRF8, EQRD



**E.L.P.**  
EXTENDED LIFE PRODUCT

10 Year Mixed Flowing Gas (MFG)  
Call Samtec for maximum cycles mated with QRF8

Increased wipe for rugged applications

Choice of stack heights

Integral ground/power plane



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

Slim footprint

(1,20mm) .047" NOMINAL WIPE

Edge Rate™ contacts

QRM8/QRF8 7mm 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.

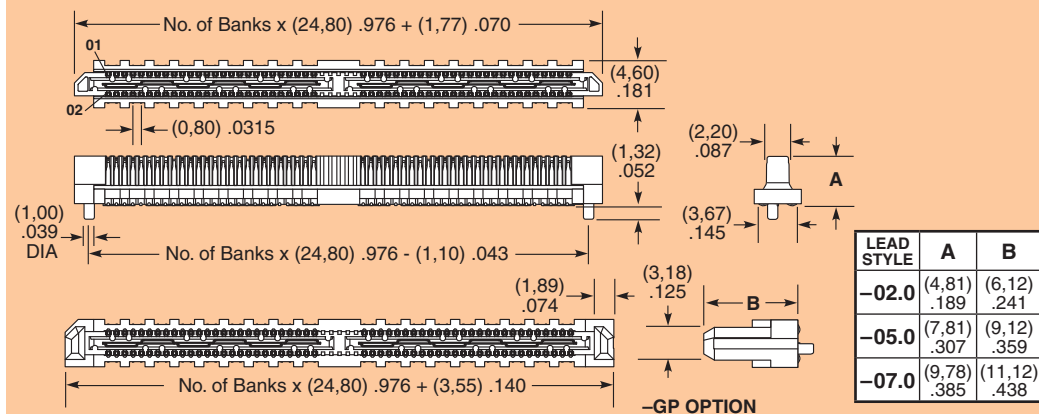
Performance data for other stack heights and complete test data available at [www.samtec.com/QRM8](http://www.samtec.com/QRM8) or contact [sig@samtec.com](mailto:sig@samtec.com)

## 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.

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 = 2mm Body Height (Not available with -054 & -078 positions)	-L = 10µ" (0,25µm) Gold on contact, Matte Tin on tail	-D = Single- Ended  -D-DP = Differential Pair	-GP = Guide Post (Requires -GP on mating connector)  -K = (5,00mm) .197" DIA Polyimide Film Pick & Place Pad  -TR = Tape & Reel
		-018, -036, -054 (18 pairs per bank = -D-DP)	-05.0 = 5mm Body Height  -07.0 = 7mm Body Height	Note: Other Gold plating options available. Contact Samtec.		



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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