

(0.80 mm) .0315"

QRF8 SERIES

SLIM BODY GROUND PLANE SOCKET

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?QRF8

- Insulator Material:** Black LCP
- Contact Material:** BeCu
- 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 Plane: 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: QRM8
Cable Mates: EQRD

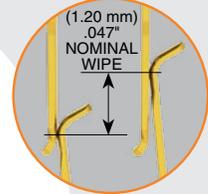


EDGE RATE CONTACT

Increased wipe for rugged applications

Integral ground/power plane

Edge Rate® contacts



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 or contact SIG@samtec.com

28 Gbps

ALSO AVAILABLE (MOQ Required)

- Other platings
- Contact Samtec.

POWER/SIGNAL APPLICATION

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

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



PROTOCOLS

- 100 GbE

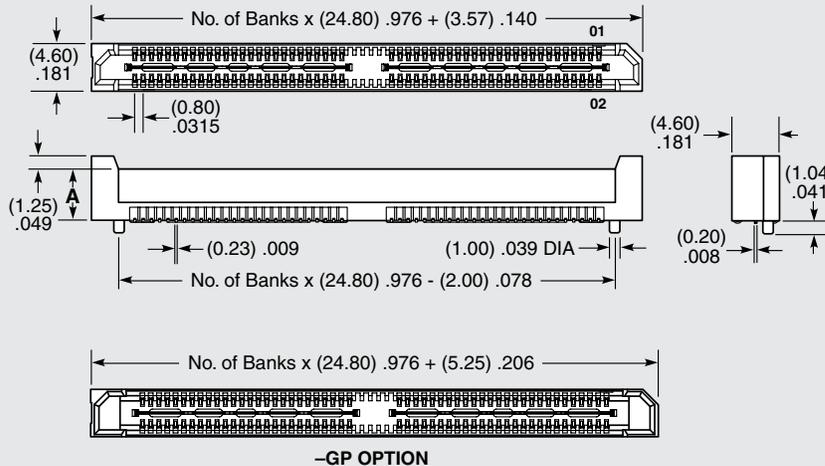
MATED HEIGHT*			
QRF8 LEAD STYLE	QRM8 LEAD STYLE		
	-02.0	-05.0	-07.0
-05.0	(7.00) .276	(10.00) .394	(12.00) .472
-07.0	(9.00) .354	(12.00) .472	(14.00) .551

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

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

QRF8	PINS PER ROW NO. OF PAIRS	LEAD STYLE	PLATING OPTION	TYPE	A	OTHER OPTION
	-026, -052, -078 (52 total pins per bank = -D)	-05.0 = 5 mm Body Height -07.0 = 7 mm Body Height	-L = 10 μm (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)

LEAD STYLE	A
-05.0	(5.01) .197
-07.0	(7.01) .276



RUGGEDIZED BY SAMTEC

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

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