



(0,80mm) .0315"

QRF8, QRF8-RA SERIES

QRF8-052-01-L-RA-GP

QRF8-026-01-L-RA-GP

QRF8-026-05.0-L-D-A

QRF8-078-05.0-L-D-A

# SLIM BODY GROUND PLANE SOCKET

**QRF8 Board Mates:**  
QRM8

**QRF8-RA Board Mates:**  
QRM8 (-GP required)

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?QRF8](http://www.samtec.com?QRF8) or [www.samtec.com?QRF8-RA](http://www.samtec.com?QRF8-RA)

**Insulator Material:**  
Black LCP

**Contact Material:**  
BeCu

**Ground Plane Material:**  
Phosphor Bronze

**Plating:**  
Au or Sn over

50µ" (1,27µm) Ni

**Current Rating:**  
QRF8 = 2.0A @ 80°C ambient  
QRF8-RA = 1.5A @ 95°C

(6 contacts powered)

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

**Voltage Rating:**  
QRF8 = 215 VAC

QRF8-RA = 230 VAC / 325 VDC

**RoHS Compliant:**  
Yes

**Lead-Free Solderable:**  
Yes

Yes

Yes

Yes



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 = 5mm Body Height	-L = 10µ" (0,25µm) 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)	-07.0 = 7mm Body Height		-D-DP = Differential Pair		-K = (5,00mm) .197" DIA Polyimide Film Pick & Place Pad
						-TR = Tape & Reel

LEAD STYLE    A

-05.0    (5,01) .197

-07.0    (7,01) .276



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.

7mm Stack Height	Type	Rated @ 3dB Insertion Loss
Single-Ended Signaling	-D	9.5 GHz / 19 Gbps
Differential Pair Signaling	-D	8.5 GHz / 17 Gbps
Differential Pair Signaling	-DP	9.0 GHz / 18 Gbps

Performance data for other stack heights and complete test data available at [www.samtec.com?QRF8](http://www.samtec.com?QRF8) or contact sig@samtec.com

**Note:** Other Gold plating options available. Contact Samtec.

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

QRF8	POSITIONS PER ROW	01	PLATING OPTION	RA	GP	OPTION
	-026, -052, -078 (52 total positions per bank)		-L = 10µ" (0,25µm) Gold on contact, Matte Tin on tail			-K = (7,00mm) .275" DIA Polyimide film Pick & Place Pad (-052 only)
						-TR = Tape & Reel

POSITIONS PER ROW    A    B

-026    (31,35) 1.234    (20,00) .787

-052    (56,15) 2.211    (44,80) 1.764

-078    (80,95) 3.187    (69,60) 2.740

**Note:** For -GP (Guide Post option) to -GP (Guide Post option) mating.

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