



(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 or 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



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

-05.0	(5,01) .197
-07.0	(7,01) .276

A

(5,01) .197
(7,01) .276

MATED HEIGHT*		
QRF8 LEAD STYLE	QRM8 LEAD STYLE	
	-02.0	-05.0
-05.0	(7,00) .276	(10,00) .394
-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 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

-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

A

(31,35) 1.234
(56,15) 2.211
(80,95) 3.187

B

(20,00) .787
(44,80) 1.764
(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.