

QFS-052-04.25-L-D-RF1

QFS-078-04.25-L-D-PC4

# COMBO Q2 SOCKETS

QFS-PC,  
QFS-RF, SERIES

## SPECIFICATIONS

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

**Insulator Material:** Liquid Crystal Polymer  
**Contact & Ground Plane Material:** Phosphor Bronze  
**Plating:** Au over 50µ" (1,27µm) Ni (Tin on Ground Plane Tail)



**Current Rating:** Signal Contact: 1.8A @ 80°C  
 Power Contact: 4.1A @ 80°C  
 Ground Plane: 8.9A @ 80°C  
**Voltage Rating:** 300 VAC mated with QMS  
**Operating Temp:** -55°C to +125°C  
**RoHS Compliant:** Yes

### Processing:

**Max Processing Temp:** 230°C for 60 seconds, or 260°C for 20 seconds 3x  
**Lead-Free Solderable:** Yes  
**SMT Lead Coplanarity:** (0,10mm) .004" max (026-078)  
**Board Stacking:** For applications requiring more than two connectors per board, contact [ipg@samtec.com](mailto:ipg@samtec.com)

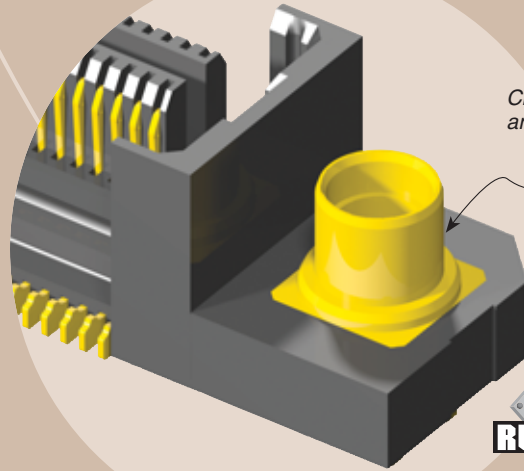
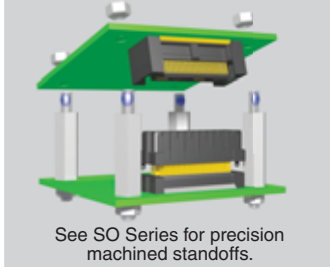
## APPLICATION SPECIFIC OPTION

- Differential Pairs
  - Retention Pins
  - 8 Power Pins/End for (1,60mm) .062" thick Board
  - 4 or 8 Power Pins/End for (2,36mm) .093" thick Board
  - 2 RF Connectors/End
  - Hot Pluggable
- Call Samtec.

Mates with:  
 QMS-PC,  
 QMS-RA-PC,  
 QMS-RF



## APPLICATIONS



Choice of Power and RF options



11mm Stack Height	Rated @ -3dB Insertion Loss
Single-Ended Signaling	8 GHz / 16 Gbps
Differential Pair Signaling	7.5 GHz / 15 Gbps

QFS	NO. OF PINS PER ROW	LEAD STYLE	PLATING OPTION	D	END OPTION
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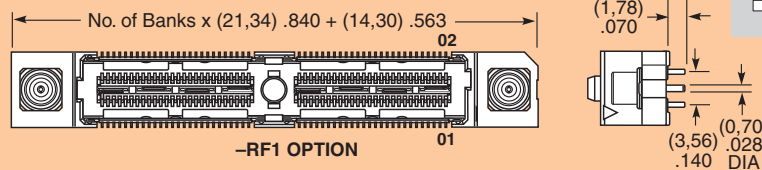
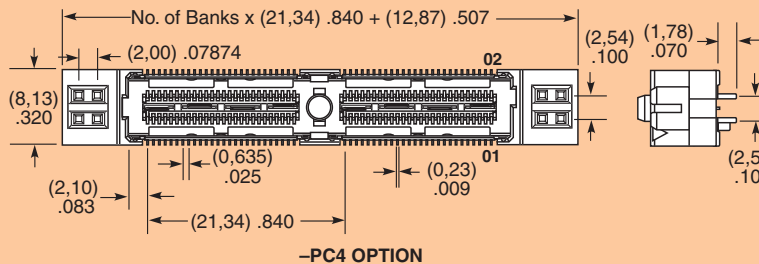
-026, -052, -078  
 (52 total pins per bank)

-04.25  
 =04.25mm

-L  
 = 10µ" (0,25µm) Gold on Signal Pins and Ground Plane  
 (Gold flash on Signal Pin tails, Tin on Ground Plane tails)

-PC4  
 = 4 Power Pins per End for (1,60mm) .062" thick Board (N/A with -RF1)

-RF1  
 = One RF Jack per End (N/A with -PC4)



## APPLICATION

QMS LEAD STYLE	BOARD SPACE
-05.75	10mm
-06.75	11mm

**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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