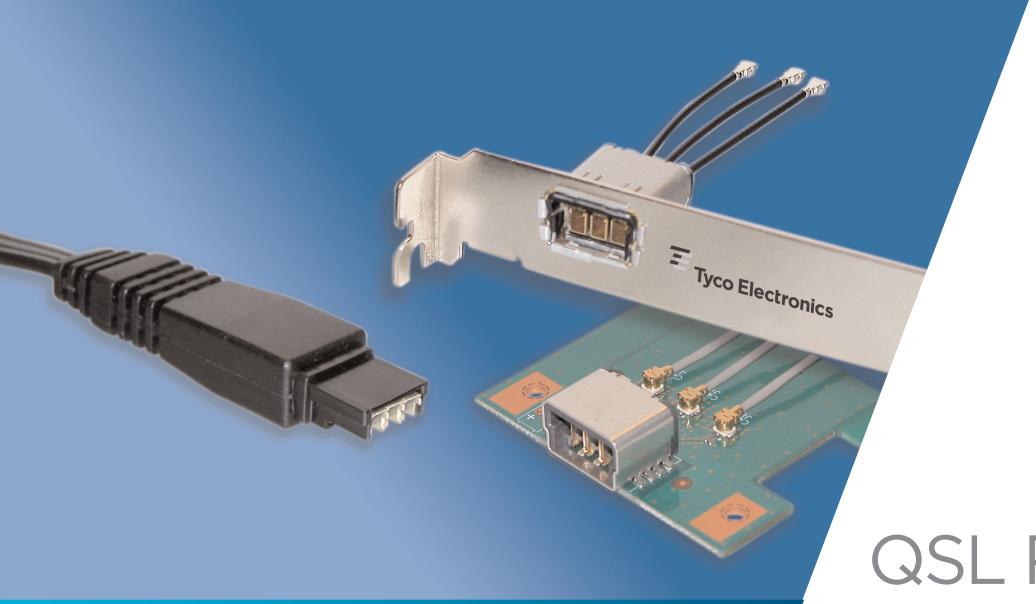

QSL RF Connector System

DESCRIPTION

Coaxial Cable Insulation Displacement Interface

- Low profile
- Highly reliable ruggedized interface
- Surface mount technology
- Excellent price-to-performance ratio

APPLICATIONS

- PCI, Mini PCI, PCI Express
- Mobile Antenna / GPS / Radio Systems
- PDA / PCS / Handheld applications
- Wireless Communications systems
- Satellite Communications, Broadcast, Multimedia
- Automotive Telematics
- WiFi, WiMAX
- Broadcast / Set Top Box

KEY FEATURES

- Surface Mount Compatible
- RoHS Compliant [Lead-free SMT process (260° C) compatible]
- PCI / PCI Express Compatible
- Designed for RG 174 & RG 316 Cable
- Overall Height < 10 mm
- 3 port QSL footprint 12.5 mm D x 17.5 mm W
- 10 mm x 10.6 mm max. footprint (w/o panel extension)
- IP67 compatible designs available upon request
- Platform expandable for multiple ports and configuration options

FOR MORE INFORMATION

Internet
http://tycoelectronics.com/products/rfcoax
http://antenna.tycoelectronics.com

Technical Support Center
Phone: 1-800-522-6752
E-mail: product.info@amp.com

Product Specification/ Design Objectives:
108-2224 Single Port
108-78376 Three Port

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Phone: 717-986-5793
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Europe Connector Product Manager—Patrick Duquerroy
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E-mail: pduquerroy@tycoelectronics.com

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ELECTRICAL	SINGLE PORT	THREE PORT
• Characteristic Impedance:	50 Ohms*	50 Ohms*
• Frequency Range:	DC — 6 GHz	DC — 6 GHz
• VSWR:		
DC — 3 GHz	1.32 max	1.3 max
3 — 6 GHz	1.42 max	1.45 max
• Insertion Loss:		
DC — 3 GHz	0.35 dB max	0.30 dB max
3 — 6 GHz	0.45 dB max	0.40 dB max
• Rated voltage:	60 VAC (rms)	60 VAC (rms)
• Rated Current Per Port:	5 A max	5 A max
• Diel. Withstanding Voltage:		
(50Hz for 1 min at sea level)	800 VAC	800 VAC
• Insulation Resistance:	100 Megohms min	100 Megohms min
• Contact Resistance:		
Center:	20 milliohms max	20 milliohms max
Outer:	20 milliohms max	20 milliohms max

*75 Ohm available upon request

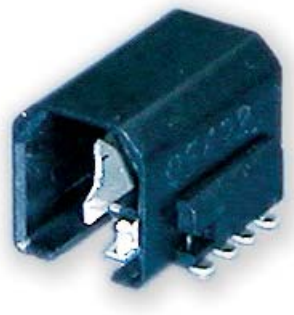
MECHANICAL/ ENVIRONMENTAL	SINGLE PORT	THREE PORT
• Engagement Force:	< 30 N	< 40 N
• Disengagement Force:	< 20 N	< 30 N
• Cable Retention:	> 89 N	> 110 N
• Operating Temperature:	- 40 to + 85°C	- 40 to + 85°C
• Durability:	250 cycles	500 cycles

MATERIAL AND FINISH

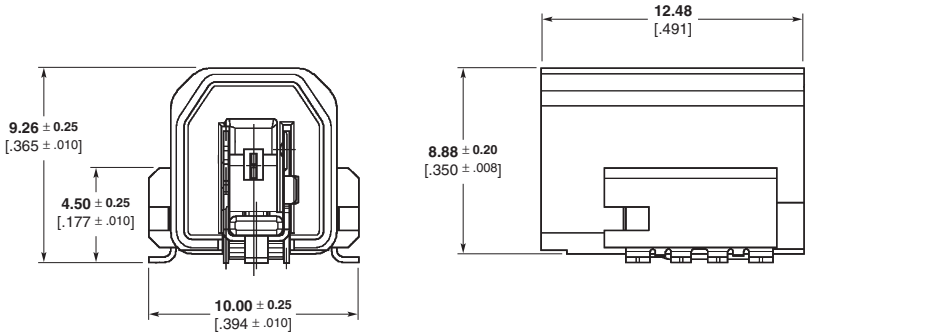
Part Description	Material	Finish
• Housing (Cable Plug)	PBT	Black, UL 94V-0
• Housing (Receptacle)	PCT/1 port, LCP/3 port	Black, UL 94V-0
• Hold Downs / Shell	Copper Alloy	Sn over Ni
• Shield & Strain Relief (Cable Plug)	Copper Alloy	Ag over Ni
• Shield (Recpt)	Copper Alloy	Ag over Ni
• Center Contact (Cable and recpt)	Copper Alloy	Au over Ni
• Insulator (Cable Plug)	PBT	Black UL 94HB

PCB Receptacles

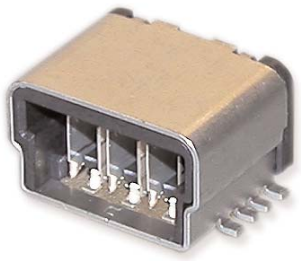
Single Port Receptacle



Part Number
1274794-1



Three Port Receptacle



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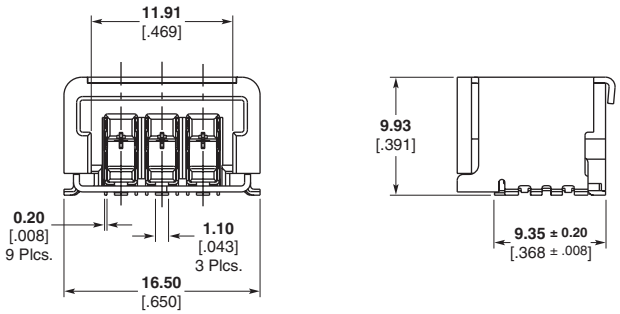

Dimensions are millimeters over inches unless otherwise specified.

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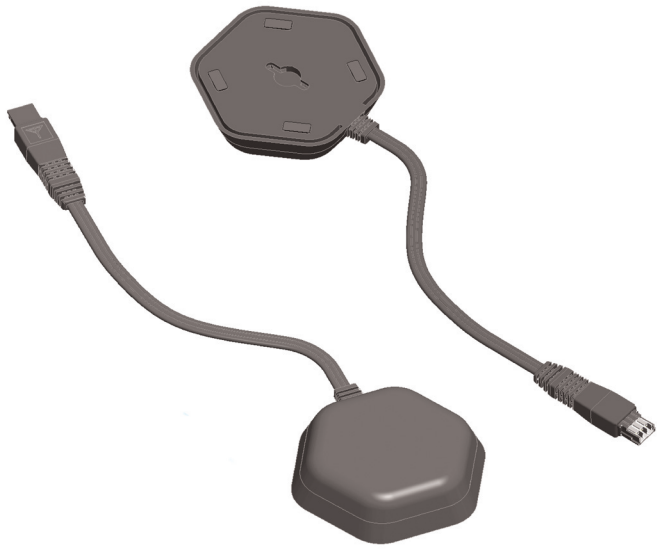
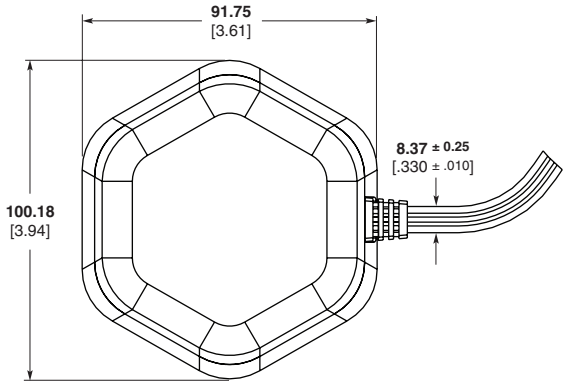
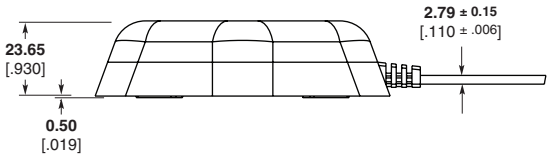
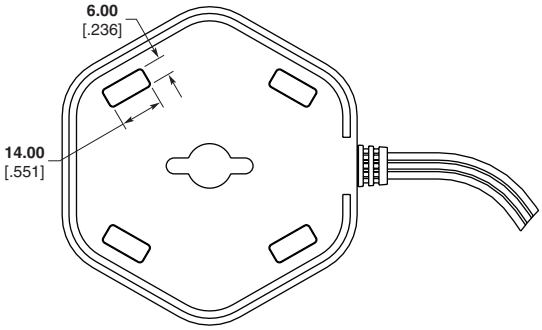
Antenna Module with 3 Port QSL Cable Plug



Part Number	Cable	Length	Antenna Type
1513712-1	RG-174	1.2 meters	MIMO/WiFi
1513711-1	RG-174	1.2 meters	MIMO/WiMAX







Dimensions are millimeters over inches unless otherwise specified.

FOR MORE INFORMATION

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QSL Jumper and Pigtail Cable Plug Assemblies

QSL Single Port Jumper Cable Plug Assembly

QSL Single Port Pigtail Cable Plug Assembly

QSL Three Port Jumper Cable Plug Assembly

QSL Three Port Pigtail Cable Plug Assembly

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