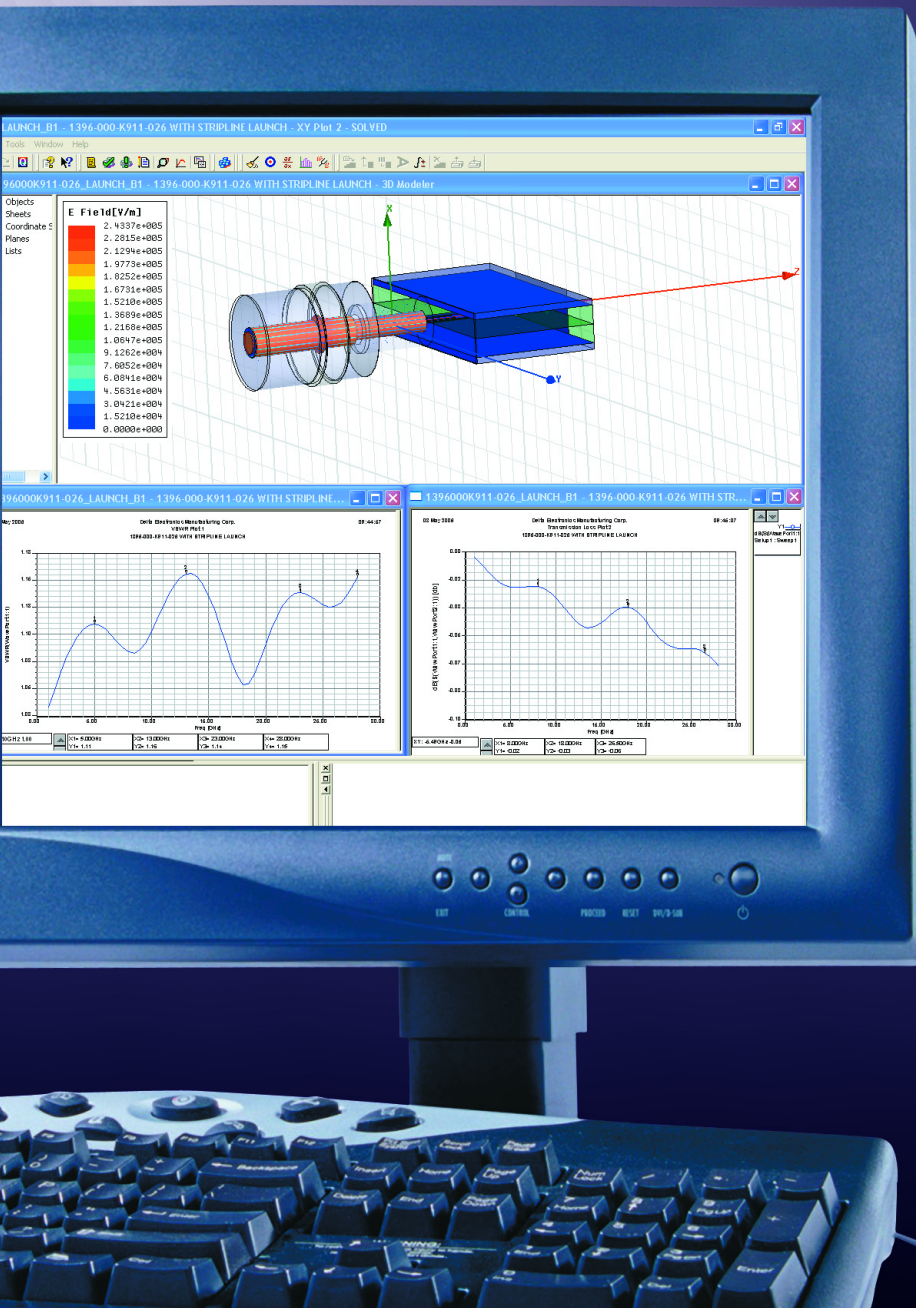
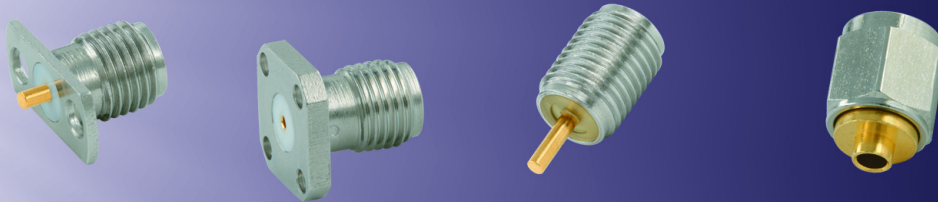


High-Frequency SMA Connectors

26.5 GHz

Volume 1

Table of contents on page 2



ISO9001:2000 Certified

(978) 927-1060

www.DeltaRF.com



General Description

These extended-frequency, general-purpose SMA connectors feature maximum VSWR of 1.15:1 from DC to 18 GHz, and 1.25:1 from 18 to 26.5 GHz.

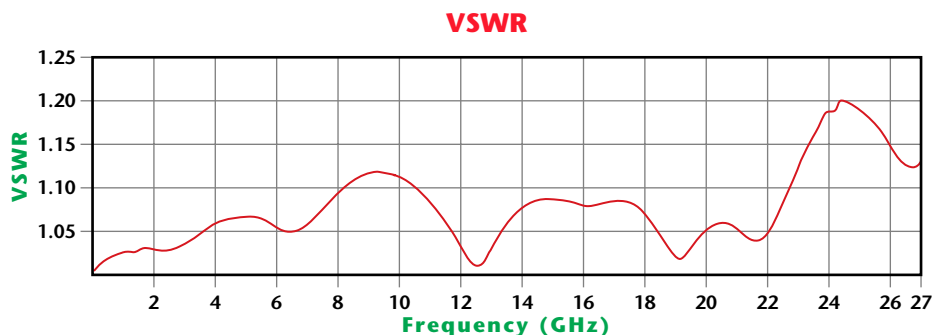
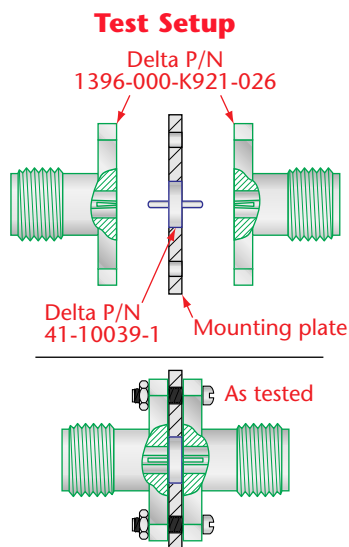
Along with cable connectors for semi-rigid cable, our SMA 26.5 GHz line includes receptacles with post contacts and integral metal contact rings, and field-replaceable types in a variety of flange sizes. These field-replaceable receptacles are available as jacks or plugs, each with a choice of air or PTFE rear dielectric matching sections, and with or without EMI gaskets.

The field-replaceable receptacles are available for use with hermetic seals or accessory pins with diameters of .012, .015, .018, .020, or .036 inches. Standard hermetic seals are also shown in this brochure, and can be modified to a wide range of configurations to match your application requirements. Three types of SMA 26.5 GHz adapters are also included in this series, as are bulkhead receptacles. We are continually expanding our SMA 26.5 GHz product line and other high-frequency products, so please call if you don't see what you need.

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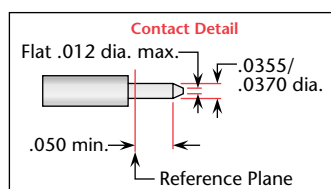
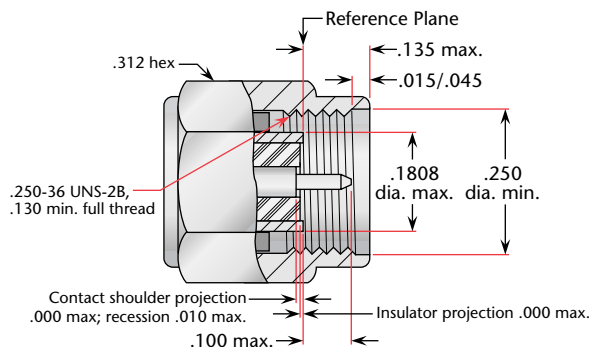
Test Data



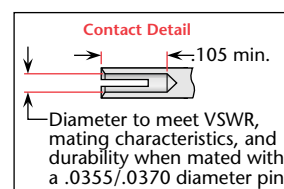
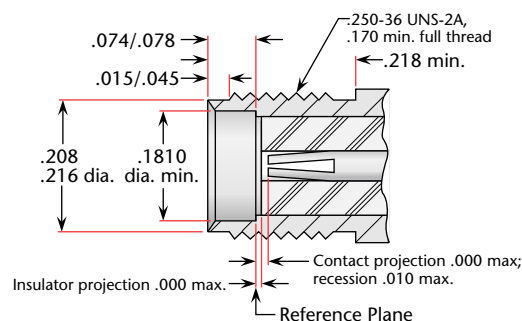
Two connectors tested, mounted back-to-back with a hermetic seal as shown at left. Maximum VSWR 1.20:1 @ 24.36 GHz (1.095:1 for each connector.) These results are typical and valid only for connectors set up for testing in the configuration shown. Hermetic seal attachment method and other circuitry characteristics will affect VSWR of the completed component.

SMA 26.5 GHz Interfaces

Plug Interface**



Jack Interface**



** Per MIL-Std-348, figures 310-1 and 310-2. Some proportions altered to illustrate detail.

SMA 26.5 GHz Specifications*

Electrical:

Nominal Impedance: 50 ohms.

Frequency Range: DC–26.5 GHz.

Voltage Rating: 335 Volts RMS (@ sea level).

VSWR: DC–18 GHz: 1.15:1 maximum;
18–26.5 GHz: 1.25:1 maximum.

RF Transmission Loss: .03 $\times \sqrt{f}$ (GHz) dB.

Dielectric Withstanding Voltage: 1000 Volts RMS
(@ sea level).

RF Hipot: 670 Volts RMS @5 MHz.

Insulation Resistance: 10,000 megohms.

RF Leakage: -100 dB minimum @3 GHz.

Contact Resistance: Center contact: 3.0 milliohms maximum;
Outer contact: 2.0 milliohms maximum.

Mechanical:

Force to Engage: 2 inch-pounds maximum.

Coupling Nut Retention: 60 pounds minimum (plugs only).

Coupling Proof Torque: 15 inch-pounds minimum (plugs only).

Contact Insertion Force: Insertion: 2 pounds maximum;
withdrawal: 1 ounce minimum.

Durability: 500 mating cycles minimum.

Mating Torque: 7–10 inch-pounds.

Materials/Finishes:

Insulators: Teflon PTFE per ASTM D1710.

Contacts: Beryllium Copper (Alloy C17300) per ASTM B196.

Contact Plating: Gold per MIL-G-45204.

Other Metal Parts: Type 303 Stainless steel per ASTM A582 and ASTM A484, plated gold per MIL-G-45204 or passivated per AMS-QQ-P-35.

Gaskets: Silicone rubber per A-A-59588.

EMI Gaskets: Conductive elastomer per MIL-G-83528, type F.

Environmental:

Operating Temperature: -65 to +125° C.

Vibration: Per MIL-STD-202, Method 204, test condition D.

Shock: Per MIL-STD-202, Method 213, test condition I.

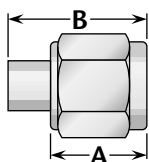
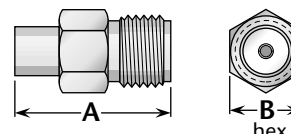
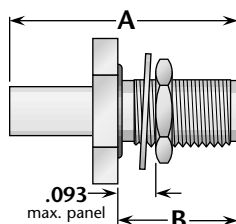
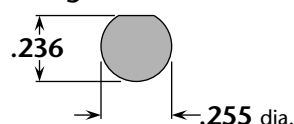
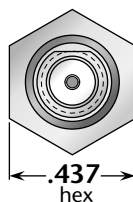
Thermal Shock: Per MIL-STD-202, Method 107,
test condition A.

Corrosion (Salt Atmosphere): Per MIL-STD-202, Method
101, test condition B.

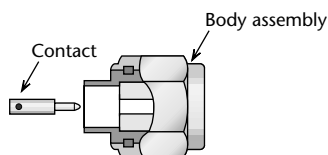
Moisture Resistance: Per MIL-STD-202, Method 106, no
measurements at high humidity. Insulation resistance 200
megohms minimum with 5 minutes of removal from humidity.

All other specifications are in accordance with the latest issues of MIL-PRF-39012, or MIL-A-55339, or other applicable MIL specifications, and interfaces are in accordance with MIL-STD-348.

*These specifications are typical and may not apply to all connectors. Detailed specifications for individual connectors are available on request.

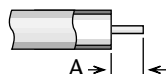
**Cable Connectors—Direct Solder For Semi-Rigid Cable****Figure 1**
(Straight plug)**Figure 2**
(Straight jack)**Figure 3**
(Bulkhead jack, with mounting gasket)**Mounting Hole Dimensions**

Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
13	1	.330	.440	Gold/PCN ⁽¹⁾	Gold	1301-031-K003-900	H/01
13	2	.500	.250	Gold	Gold	1308-031-G003-900	H/01
13	3	.625	.415	Gold	Gold	1317-031-G673-900	H/01
14	1	.330	.440	Gold/PCN ⁽¹⁾	Gold	1301-025-K003-900	H/01
14	2	.500	.250	Gold	Gold	1308-025-G003-900	H/01
14	3	.625	.415	Gold	Gold	1317-025-G673-900	H/01

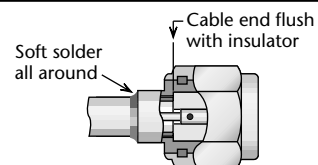
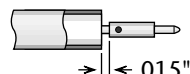
⁽¹⁾ Gold-plated body and passivated coupling nut.**Cable Groups****13:** .141" semi-rigid; RG-402; M17/130**14:** .085" semi-rigid; RG-405; M17/133**Assembly Procedure H****Trim Codes**

Code	A
H/01	.090

1) Trim cable as shown. Remove any burrs from jacket and center conductor.



2) Solder contact to center conductor, fixturing to maintain gap as shown. Remove any excess solder from outside of contact.



3) Insert cable into body and solder cable jacket to body, keeping end of cable flush with insulator as shown.

Plug body assembly and contact shown; procedure is identical for jack connectors.

Panel Receptacles—Post Contact

Jack Receptacles

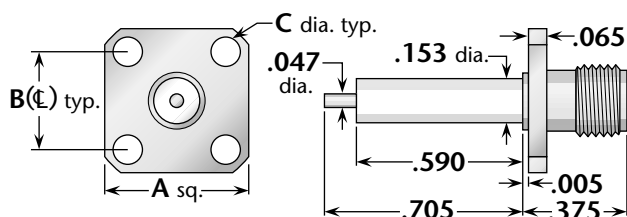


Figure 1 (1/2" square flange)

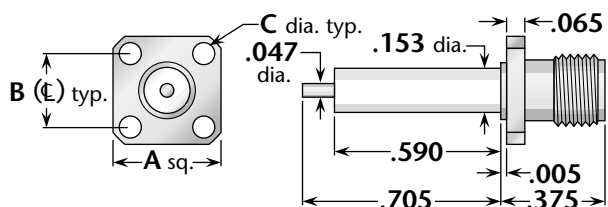


Figure 2 (3/8" square flange)

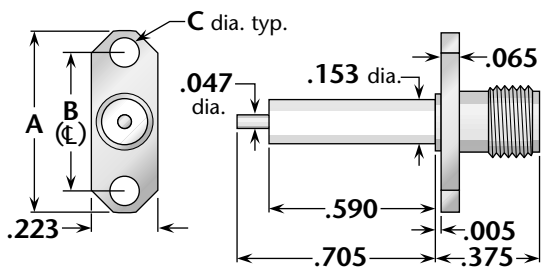


Figure 3 (2-hole flange)

Plug Receptacles

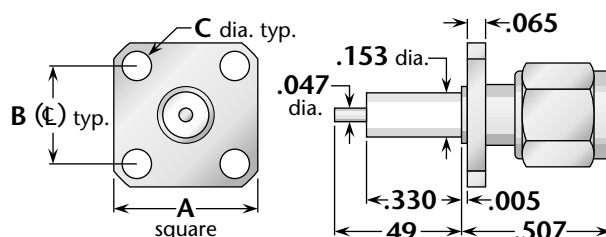


Figure 4 (1/2" square flange)

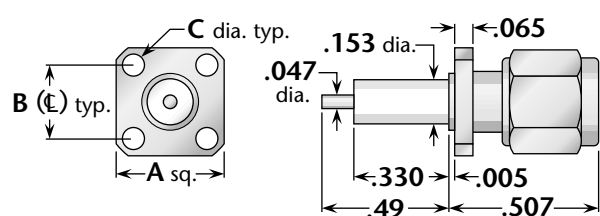


Figure 5 (3/8" square flange)

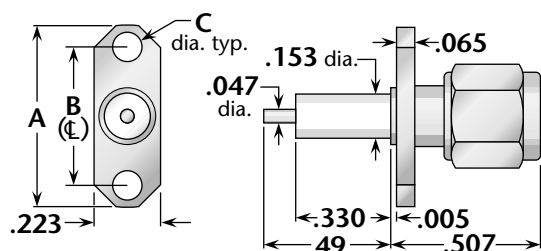


Figure 6 (2-hole flange)

Figure	Dimensions			Plating		Delta P/N
	A	B	C	Body	Contact	
1	.500	.340	.102	Gold	Gold (C)	1358-000-G051-900
1	.500	.340	.102	Passivated	Gold (C)	1358-000-K051-900
2	.375	.250	.067	Gold	Gold (C)	1358-000-G911-900
2	.375	.250	.067	Passivated	Gold (C)	1358-000-K911-900
3	.625	.481	.102	Gold	Gold (C)	1358-000-G921-900
3	.625	.481	.102	Passivated	Gold (C)	1358-000-K921-900
4	.500	.340	.102	Gold	Gold (C)	1359-000-G051-900
4	.500	.340	.102	Passivated	Gold (C)	1359-000-K051-900
5	.375	.250	.067	Gold	Gold (C)	1359-000-G911-900
5	.375	.250	.067	Passivated	Gold (C)	1359-000-K911-900
6	.625	.481	.102	Gold	Gold (C)	1359-000-G921-900
6	.625	.481	.102	Passivated	Gold (C)	1359-000-K921-900

These receptacles are also available with other flange sizes and contact / insulator configurations.
(C) in contact plating column indicates captive contact.

Panel Jack Receptacles—Field Replaceable, Air Dielectric (No EMI Gasket)

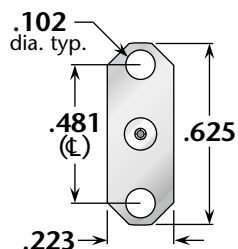


Figure 1
(Standard 2-hole flange)

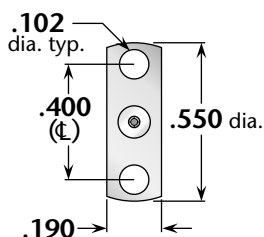
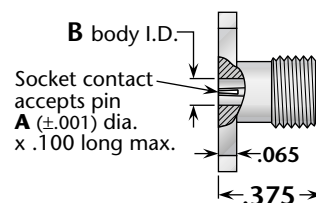


Figure 2
(Narrow 2-hole flange)



Connector Side View

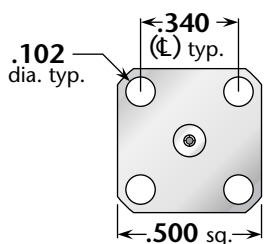


Figure 3
(1/2" square flange)

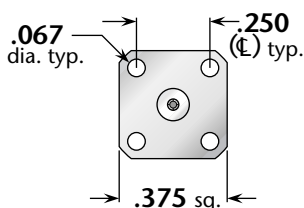


Figure 4
(3/8" square flange)

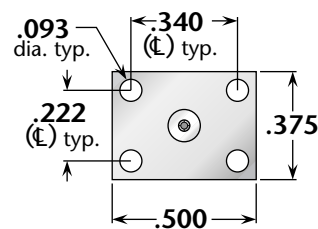


Figure 5
(1/2" x 3/8" rectangular flange)

Flange Figure	Dimensions		Plating		Delta P/N
	A (Pin Diameter)	B (Body I.D.)	Body	Contact	
1	.012	.078	Passivated	Gold (C)	1396-000-K921-025
	.015	.078	Passivated	Gold (C)	1396-000-K921-026
	.018	.078	Passivated	Gold (C)	1396-000-K921-027
	.020	.078	Passivated	Gold (C)	1396-000-K921-028
	.036	.110	Passivated	Gold (C)	1396-000-K921-029
2	.012	.078	Passivated	Gold (C)	1396-000-K911-029
	.015	.078	Passivated	Gold (C)	1396-000-K911-030
	.018	.078	Passivated	Gold (C)	1396-000-K911-031
	.020	.078	Passivated	Gold (C)	1396-000-K911-032
	.036	.110	Passivated	Gold (C)	1396-000-K911-033
3	.012	.078	Passivated	Gold (C)	1396-000-K051-015
	.015	.078	Passivated	Gold (C)	1396-000-K051-016
	.018	.078	Passivated	Gold (C)	1396-000-K051-017
	.020	.078	Passivated	Gold (C)	1396-000-K051-018
	.036	.110	Passivated	Gold (C)	1396-000-K051-019
4	.012	.078	Passivated	Gold (C)	1396-000-K911-023
	.015	.078	Passivated	Gold (C)	1396-000-K911-024
	.018	.078	Passivated	Gold (C)	1396-000-K911-025
	.020	.078	Passivated	Gold (C)	1396-000-K911-026
	.036	.110	Passivated	Gold (C)	1396-000-K911-027
5	.012	.078	Passivated	Gold (C)	1396-000-K911-042
	.015	.078	Passivated	Gold (C)	1396-000-K911-043
	.018	.078	Passivated	Gold (C)	1396-000-K911-044
	.020	.078	Passivated	Gold (C)	1396-000-K911-045
	.036	.110	Passivated	Gold (C)	1396-000-K911-046

See page 15 for hermetic seals and accessory pins. • (C) indicates captive contact.

Panel Jack Receptacles—Field Replaceable, Air Dielectric (With EMI Gasket)

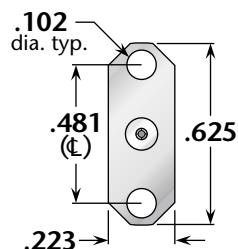


Figure 1
(Standard 2-hole flange)

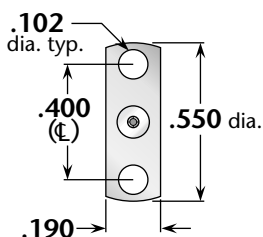
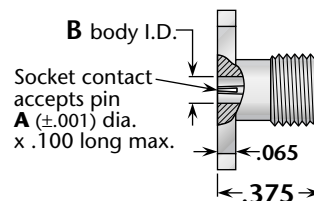


Figure 2
(Narrow 2-hole flange)



Connector Side View

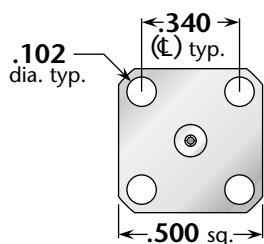


Figure 3
(1/2" square flange)

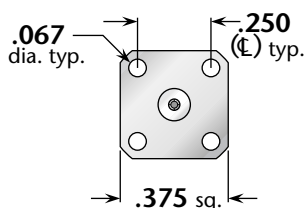


Figure 4
(3/8" square flange)

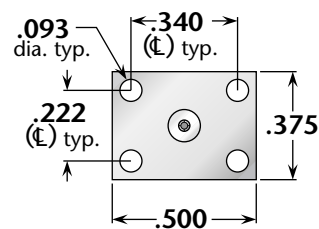


Figure 5
(1/2" x 3/8" rectangular flange)

Flange Figure	Dimensions		Plating		Delta P/N
	A (Pin Diameter)	B (Body I.D.)	Body	Contact	
1	.012	.078	Passivated	Gold (C)	1396-000-K921-025-EMI
	.015	.078	Passivated	Gold (C)	1396-000-K921-026-EMI
	.018	.078	Passivated	Gold (C)	1396-000-K921-027-EMI
	.020	.078	Passivated	Gold (C)	1396-000-K921-028-EMI
	.036	.110	Passivated	Gold (C)	1396-000-K921-029-EMI
2	.012	.078	Passivated	Gold (C)	1396-000-K911-029-EMI
	.015	.078	Passivated	Gold (C)	1396-000-K911-030-EMI
	.018	.078	Passivated	Gold (C)	1396-000-K911-031-EMI
	.020	.078	Passivated	Gold (C)	1396-000-K911-032-EMI
	.036	.110	Passivated	Gold (C)	1396-000-K911-033-EMI
3	.012	.078	Passivated	Gold (C)	1396-000-K051-015-EMI
	.015	.078	Passivated	Gold (C)	1396-000-K051-016-EMI
	.018	.078	Passivated	Gold (C)	1396-000-K051-017-EMI
	.020	.078	Passivated	Gold (C)	1396-000-K051-018-EMI
	.036	.110	Passivated	Gold (C)	1396-000-K051-019-EMI
4	.012	.078	Passivated	Gold (C)	1396-000-K911-023-EMI
	.015	.078	Passivated	Gold (C)	1396-000-K911-024-EMI
	.018	.078	Passivated	Gold (C)	1396-000-K911-025-EMI
	.020	.078	Passivated	Gold (C)	1396-000-K911-026-EMI
	.036	.110	Passivated	Gold (C)	1396-000-K911-027-EMI
5	.012	.078	Passivated	Gold (C)	1396-000-K911-042-EMI
	.015	.078	Passivated	Gold (C)	1396-000-K911-043-EMI
	.018	.078	Passivated	Gold (C)	1396-000-K911-044-EMI
	.020	.078	Passivated	Gold (C)	1396-000-K911-045-EMI
	.036	.110	Passivated	Gold (C)	1396-000-K911-046-EMI

See page 15 for hermetic seals and accessory pins. • (C) indicates captive contact.

Panel Jack Receptacles—Field Replaceable, PTFE Dielectric (No EMI Gasket)

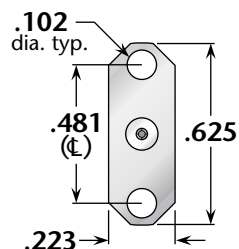


Figure 1
(Standard 2-hole flange)

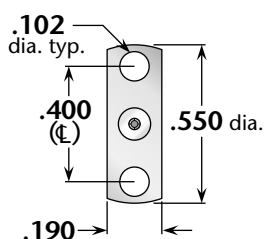
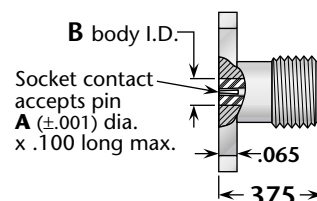


Figure 2
(Narrow 2-hole flange)



Connector Side View

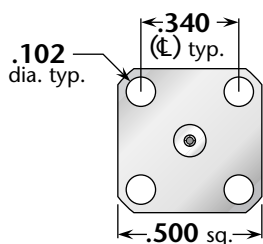


Figure 3
(1/2" square flange)

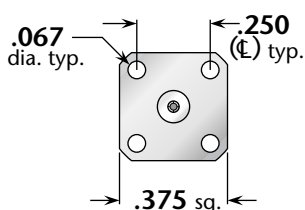


Figure 4
(3/8" square flange)

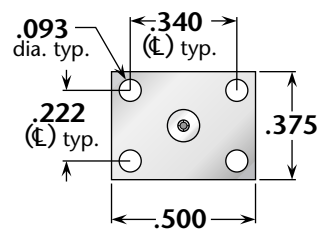


Figure 5
(1/2" x 3/8" rectangular flange)

Flange Figure	Dimensions		Plating		Delta P/N
	A (Pin Diameter)	B (Body I.D.)	Body	Contact	
1	.012	.104	Passivated	Gold (C)	1396-000-K921-021
	.015	.104	Passivated	Gold (C)	1396-000-K921-022
	.018	.104	Passivated	Gold (C)	1396-000-K921-023
	.020	.104	Passivated	Gold (C)	1396-000-K921-024
2	.012	.104	Passivated	Gold (C)	1396-000-K911-034
	.015	.104	Passivated	Gold (C)	1396-000-K911-035
	.018	.104	Passivated	Gold (C)	1396-000-K911-036
	.020	.104	Passivated	Gold (C)	1396-000-K911-037
3	.012	.104	Passivated	Gold (C)	1396-000-K051-020
	.015	.104	Passivated	Gold (C)	1396-000-K051-021
	.018	.104	Passivated	Gold (C)	1396-000-K051-022
	.020	.104	Passivated	Gold (C)	1396-000-K051-023
4	.012	.104	Passivated	Gold (C)	1396-000-K911-038
	.015	.104	Passivated	Gold (C)	1396-000-K911-039
	.018	.104	Passivated	Gold (C)	1396-000-K911-040
	.020	.104	Passivated	Gold (C)	1396-000-K911-041
5	.012	.104	Passivated	Gold (C)	1396-000-K911-047
	.015	.104	Passivated	Gold (C)	1396-000-K911-048
	.018	.104	Passivated	Gold (C)	1396-000-K911-049
	.020	.104	Passivated	Gold (C)	1396-000-K911-050

See page 15 for hermetic seals and accessory pins. • (C) indicates captive contact.

Panel Jack Receptacles—Field Replaceable, PTFE Dielectric (With EMI Gasket)

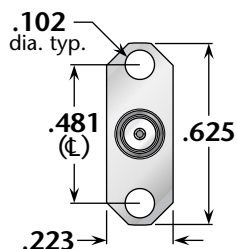


Figure 1
(Standard 2-hole flange)

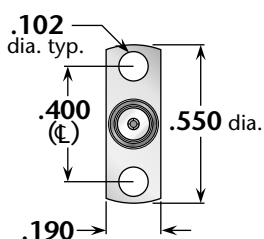
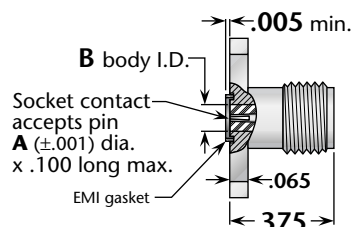


Figure 2
(Narrow 2-hole flange)



Connector Side View

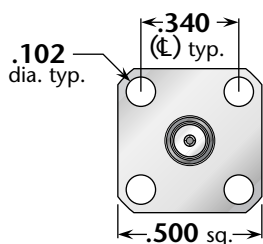


Figure 3
(1/2" square flange)

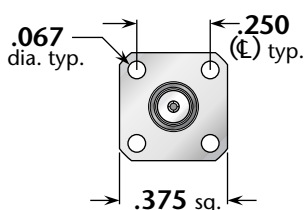


Figure 4
(3/8" square flange)

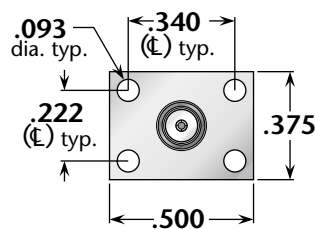


Figure 5
(1/2" x 3/8" rectangular flange)

Flange Figure	Dimensions		Plating		Delta P/N
	A (Pin Diameter)	B (Body I.D.)	Body	Contact	
1	.012	.104	Passivated	Gold (C)	1396-000-K921-021-EMI
	.015	.104	Passivated	Gold (C)	1396-000-K921-022-EMI
	.018	.104	Passivated	Gold (C)	1396-000-K921-023-EMI
	.020	.104	Passivated	Gold (C)	1396-000-K921-024-EMI
2	.012	.104	Passivated	Gold (C)	1396-000-K911-034-EMI
	.015	.104	Passivated	Gold (C)	1396-000-K911-035-EMI
	.018	.104	Passivated	Gold (C)	1396-000-K911-036-EMI
	.020	.104	Passivated	Gold (C)	1396-000-K911-037-EMI
3	.012	.104	Passivated	Gold (C)	1396-000-K051-020-EMI
	.015	.104	Passivated	Gold (C)	1396-000-K051-021-EMI
	.018	.104	Passivated	Gold (C)	1396-000-K051-022-EMI
	.020	.104	Passivated	Gold (C)	1396-000-K051-023-EMI
4	.012	.104	Passivated	Gold (C)	1396-000-K911-038-EMI
	.015	.104	Passivated	Gold (C)	1396-000-K911-039-EMI
	.018	.104	Passivated	Gold (C)	1396-000-K911-040-EMI
	.020	.104	Passivated	Gold (C)	1396-000-K911-041-EMI
5	.012	.104	Passivated	Gold (C)	1396-000-K911-047-EMI
	.015	.104	Passivated	Gold (C)	1396-000-K911-048-EMI
	.018	.104	Passivated	Gold (C)	1396-000-K911-049-EMI
	.020	.104	Passivated	Gold (C)	1396-000-K911-050-EMI

See page 15 for hermetic seals and accessory pins. • (C) indicates captive contact.

Panel Plug Receptacles—Field Replaceable, Air Dielectric (No EMI Gasket)

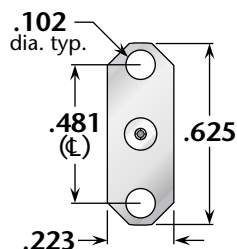


Figure 1
(Standard 2-hole flange)

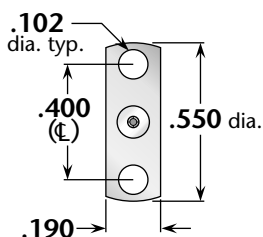
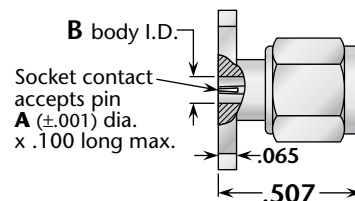


Figure 2
(Narrow 2-hole flange)



Connector Side View

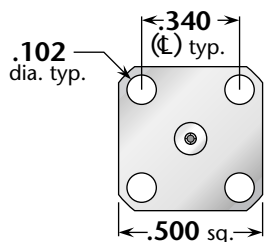


Figure 3
(1/2" square flange)

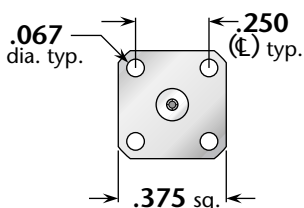


Figure 4
(3/8" square flange)

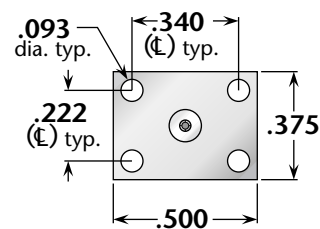


Figure 5
(1/2" x 3/8" rectangular flange)

Flange Figure	Dimensions		Plating		Delta P/N
	A (Pin Diameter)	B (Body I.D.)	Body	Contact	
1	.012	.078	Passivated	Gold (C)	1397-000-K921-017
	.015	.078	Passivated	Gold (C)	1397-000-K921-018
	.018	.078	Passivated	Gold (C)	1397-000-K921-019
	.020	.078	Passivated	Gold (C)	1397-000-K921-020
	.036	.110	Passivated	Gold (C)	1397-000-K921-021
2	.012	.078	Passivated	Gold (C)	1397-000-K911-011
	.015	.078	Passivated	Gold (C)	1397-000-K911-012
	.018	.078	Passivated	Gold (C)	1397-000-K911-013
	.020	.078	Passivated	Gold (C)	1397-000-K911-014
	.036	.110	Passivated	Gold (C)	1397-000-K911-015
3	.012	.078	Passivated	Gold (C)	1397-000-K051-011
	.015	.078	Passivated	Gold (C)	1397-000-K051-012
	.018	.078	Passivated	Gold (C)	1397-000-K051-013
	.020	.078	Passivated	Gold (C)	1397-000-K051-014
	.036	.110	Passivated	Gold (C)	1397-000-K051-015
4	.012	.078	Passivated	Gold (C)	1397-000-K911-020
	.015	.078	Passivated	Gold (C)	1397-000-K911-021
	.018	.078	Passivated	Gold (C)	1397-000-K911-022
	.020	.078	Passivated	Gold (C)	1397-000-K911-023
	.036	.110	Passivated	Gold (C)	1397-000-K911-024
5	.012	.078	Passivated	Gold (C)	1397-000-K911-029
	.015	.078	Passivated	Gold (C)	1397-000-K911-030
	.018	.078	Passivated	Gold (C)	1397-000-K911-031
	.020	.078	Passivated	Gold (C)	1397-000-K911-032
	.036	.110	Passivated	Gold (C)	1397-000-K911-033

See page 15 for hermetic seals and accessory pins. • (C) indicates captive contact.

Panel Plug Receptacles—Field Replaceable, Air Dielectric (With EMI Gasket)

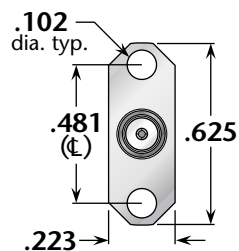


Figure 1
(Standard 2-hole flange)

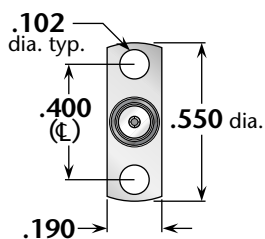
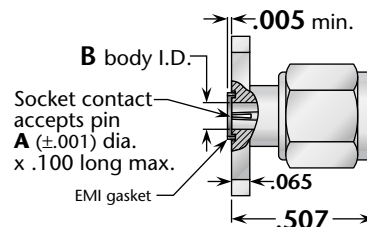


Figure 2
(Narrow 2-hole flange)



Connector Side View

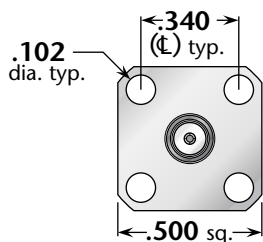


Figure 3
(1/2" square flange)

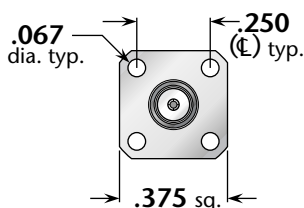


Figure 4
(3/8" square flange)

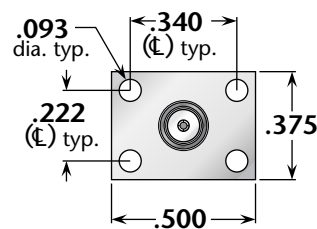


Figure 5
(1/2" x 3/8" rectangular flange)

Flange Figure	Dimensions		Plating		Delta P/N
	A (Pin Diameter)	B (Body I.D.)	Body	Contact	
1	.012	.078	Passivated	Gold (C)	1397-000-K921-017-EMI
	.015	.078	Passivated	Gold (C)	1397-000-K921-018-EMI
	.018	.078	Passivated	Gold (C)	1397-000-K921-019-EMI
	.020	.078	Passivated	Gold (C)	1397-000-K921-020-EMI
	.036	.110	Passivated	Gold (C)	1397-000-K921-021-EMI
2	.012	.078	Passivated	Gold (C)	1397-000-K911-011-EMI
	.015	.078	Passivated	Gold (C)	1397-000-K911-012-EMI
	.018	.078	Passivated	Gold (C)	1397-000-K911-013-EMI
	.020	.078	Passivated	Gold (C)	1397-000-K911-014-EMI
	.036	.110	Passivated	Gold (C)	1397-000-K911-015-EMI
3	.012	.078	Passivated	Gold (C)	1397-000-K051-011-EMI
	.015	.078	Passivated	Gold (C)	1397-000-K051-012-EMI
	.018	.078	Passivated	Gold (C)	1397-000-K051-013-EMI
	.020	.078	Passivated	Gold (C)	1397-000-K051-014-EMI
	.036	.110	Passivated	Gold (C)	1397-000-K051-015-EMI
4	.012	.078	Passivated	Gold (C)	1397-000-K911-020-EMI
	.015	.078	Passivated	Gold (C)	1397-000-K911-021-EMI
	.018	.078	Passivated	Gold (C)	1397-000-K911-022-EMI
	.020	.078	Passivated	Gold (C)	1397-000-K911-023-EMI
	.036	.110	Passivated	Gold (C)	1397-000-K911-024-EMI
5	.012	.078	Passivated	Gold (C)	1397-000-K911-029-EMI
	.015	.078	Passivated	Gold (C)	1397-000-K911-030-EMI
	.018	.078	Passivated	Gold (C)	1397-000-K911-031-EMI
	.020	.078	Passivated	Gold (C)	1397-000-K911-032-EMI
	.036	.110	Passivated	Gold (C)	1397-000-K911-033-EMI

See page 15 for hermetic seals and accessory pins. • (C) indicates captive contact.

Panel Plug Receptacles—Field Replaceable, PTFE Dielectric (No EMI Gasket)

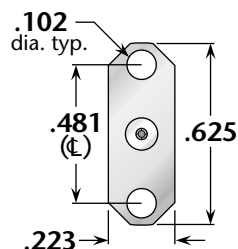


Figure 1
(Standard 2-hole flange)

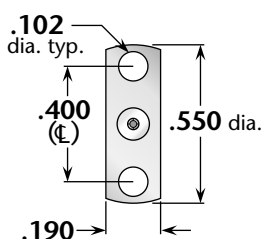
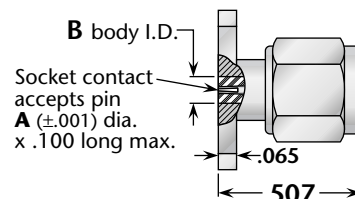


Figure 2
(Narrow 2-hole flange)



Connector Side View

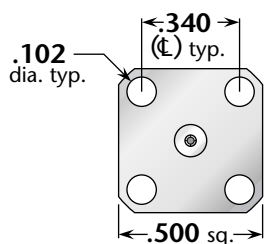


Figure 3
(1/2" square flange)

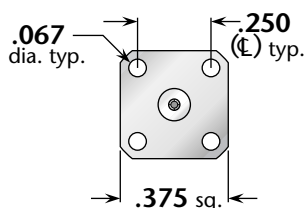


Figure 4
(3/8" square flange)

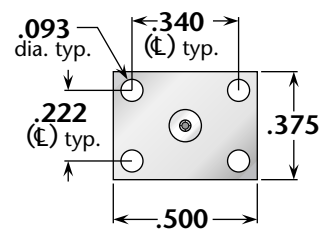


Figure 5
(1/2" x 3/8" rectangular flange)

Flange Figure	Dimensions		Plating		Delta P/N
	A (Pin Diameter)	B (Body I.D.)	Body	Contact	
1	.012	.104	Passivated	Gold (C)	1397-000-K921-022
	.015	.104	Passivated	Gold (C)	1397-000-K921-023
	.018	.104	Passivated	Gold (C)	1397-000-K921-024
	.020	.104	Passivated	Gold (C)	1397-000-K921-025
2	.012	.104	Passivated	Gold (C)	1397-000-K911-016
	.015	.104	Passivated	Gold (C)	1397-000-K911-017
	.018	.104	Passivated	Gold (C)	1397-000-K911-018
	.020	.104	Passivated	Gold (C)	1397-000-K911-019
3	.012	.104	Passivated	Gold (C)	1397-000-K051-016
	.015	.104	Passivated	Gold (C)	1397-000-K051-017
	.018	.104	Passivated	Gold (C)	1397-000-K051-018
	.020	.104	Passivated	Gold (C)	1397-000-K051-019
4	.012	.104	Passivated	Gold (C)	1397-000-K911-025
	.015	.104	Passivated	Gold (C)	1397-000-K911-026
	.018	.104	Passivated	Gold (C)	1397-000-K911-027
	.020	.104	Passivated	Gold (C)	1397-000-K911-028
5	.012	.104	Passivated	Gold (C)	1397-000-K911-034
	.015	.104	Passivated	Gold (C)	1397-000-K911-035
	.018	.104	Passivated	Gold (C)	1397-000-K911-036
	.020	.104	Passivated	Gold (C)	1397-000-K911-037

See page 15 for hermetic seals and accessory pins. • (C) indicates captive contact.

Panel Plug Receptacles—Field Replaceable, PTFE Dielectric (With EMI Gasket)

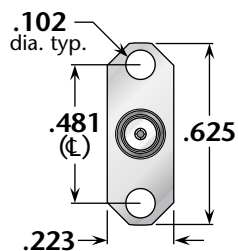


Figure 1
(Standard 2-hole flange)

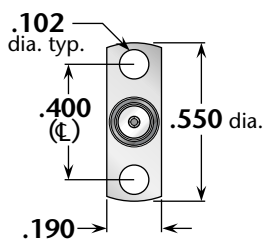
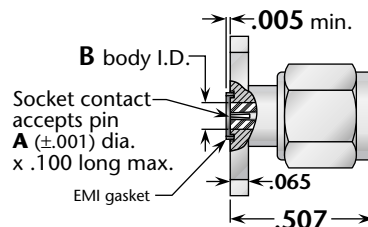


Figure 2
(Narrow 2-hole flange)



Connector Side View

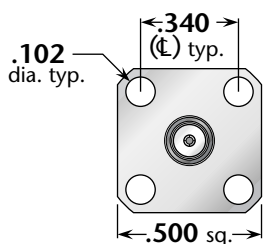


Figure 3
(1/2" square flange)

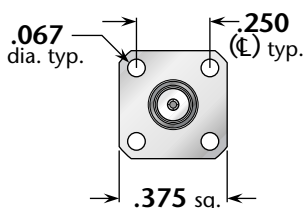


Figure 4
(3/8" square flange)

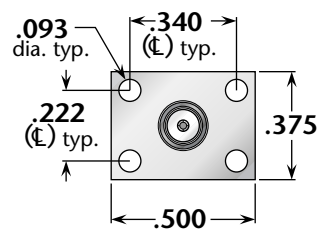


Figure 5
(1/2" x 3/8" rectangular flange)

Flange Figure	Dimensions		Plating		Delta P/N
	A (Pin Diameter)	B (Body I.D.)	Body	Contact	
1	.012	.104	Passivated	Gold (C)	1397-000-K921-022-EMI
	.015	.104	Passivated	Gold (C)	1397-000-K921-023-EMI
	.018	.104	Passivated	Gold (C)	1397-000-K921-024-EMI
	.020	.104	Passivated	Gold (C)	1397-000-K921-025-EMI
2	.012	.104	Passivated	Gold (C)	1397-000-K911-016-EMI
	.015	.104	Passivated	Gold (C)	1397-000-K911-017-EMI
	.018	.104	Passivated	Gold (C)	1397-000-K911-018-EMI
	.020	.104	Passivated	Gold (C)	1397-000-K911-019-EMI
3	.012	.104	Passivated	Gold (C)	1397-000-K051-016-EMI
	.015	.104	Passivated	Gold (C)	1397-000-K051-017-EMI
	.018	.104	Passivated	Gold (C)	1397-000-K051-018-EMI
	.020	.104	Passivated	Gold (C)	1397-000-K051-019-EMI
4	.012	.104	Passivated	Gold (C)	1397-000-K911-025-EMI
	.015	.104	Passivated	Gold (C)	1397-000-K911-026-EMI
	.018	.104	Passivated	Gold (C)	1397-000-K911-027-EMI
	.020	.104	Passivated	Gold (C)	1397-000-K911-028-EMI
5	.012	.104	Passivated	Gold (C)	1397-000-K911-034-EMI
	.015	.104	Passivated	Gold (C)	1397-000-K911-035-EMI
	.018	.104	Passivated	Gold (C)	1397-000-K911-036-EMI
	.020	.104	Passivated	Gold (C)	1397-000-K911-037-EMI

See page 15 for hermetic seals and accessory pins. • (C) indicates captive contact.

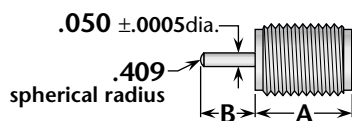
**Bulkhead Receptacles**

Figure 1
(Post contact)

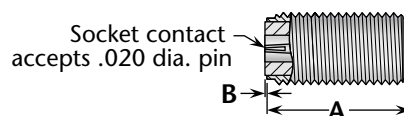


Figure 2
(For use with hermetic seal)

Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	.336	.185	Gold	Gold (C)	1321-000-G821-900
1	.336	.185	Passivated	Gold (C)	1321-000-K821-900
2	.425	.002/.006	Gold	Gold (C)	1321-000-G821-901
2	.425	.002/.006	Passivated	Gold (C)	1321-000-K821-901

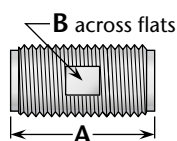
Straight Adapters

Figure 1
(Straight jack-jack; connects two plugs)

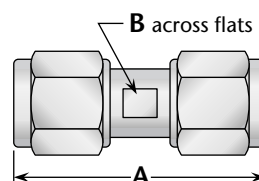


Figure 2
(Straight plug-plug; connects two jacks)

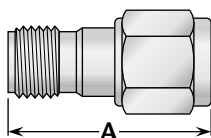


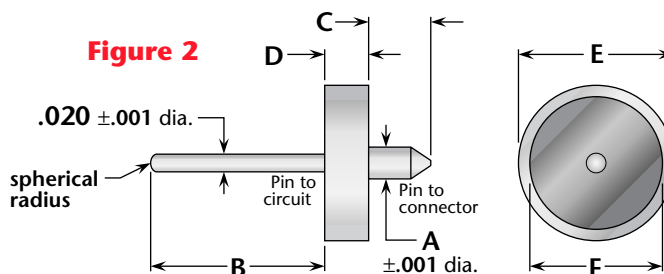
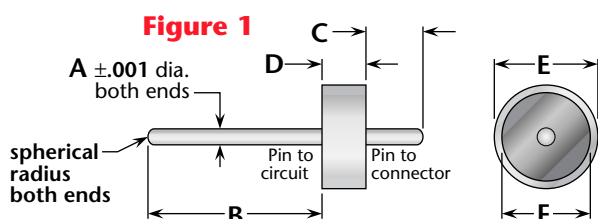
Figure 3
(Straight jack-plug; connects one plug and one jack)

Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	.500	.218	Gold	Gold (C)	1328-000-G001-900
1	.500	.218	Passivated	Gold (C)	1328-000-K001-900
2	.875	.218	Gold	Gold (C)	1327-000-G001-900
2	.875	.218	Passivated	Gold (C)	1327-000-K001-900
3	.72	—	Gold	Gold (C)	1334-000-G001-900
3	.72	—	Passivated	Gold (C)	1334-000-K001-900

(C) indicates captive contact.

Hermetic Seals

These drawings are 200% scale compared with connector drawings for clarity.
Hermetic seals are available with other pin lengths to suit your specific requirement.

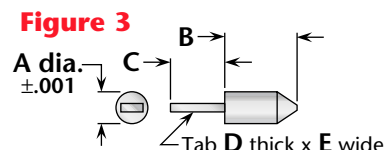
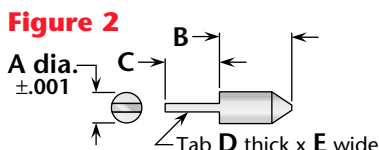
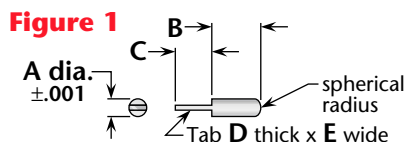


Ring and pin material: Kovar, gold plated per MIL-G-45204 Type II, Grade C, Class 1.
Leak rate: $>1 \times 10^{-8}$ cc/sec @at 14.7 PSIG differential, using 100% helium. **Impedance:** $50 \pm 2 \Omega$.

Figure	Dimensions						Glass Type	Frequency Range	Delta P/N
	A	B	C	D	E	F			
1	.012	.180	.072	.063	.099	.078	7052	DC-42.0 GHz	41-10038-1
1	.015	.180	.080	.063	.099	.083	7052	DC-28.0 GHz	41-10039-1
1	.018	.180	.080	.063	.112	.099	7070	DC-18.0 GHz	41-10040-1
1	.020	.180	.080	.063	.158	.129	7052	DC-8.0 GHz	41-10041-1
2	.036	.180	.080	.063	.158	.129	7052	DC-8.0 GHz	41-10042-1

Accessory Pins

These drawings are 200% scale compared with connector drawings for clarity.
Pins are available with other tab sizes and configurations to suit your specific requirement.

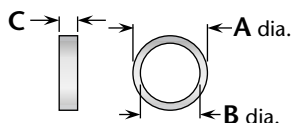


Material: Beryllium copper, Alloy C17300, condition H, per ASTM B196
Finish: Gold plated per MIL-G-45204 Type II, Class 1, Grade C, over nickel plate per AMS-QQ-N-290, Class 1, Grade G.

Figure	Dimensions					Delta P/N
	A	B	C	D	E	
1	.012	.050	.025	.004	.012	33-10432-1
2	.015	.085	.040	.004	.015	33-10416-1
2	.020	.090	.100	.005	.020	33-10415-1
2	.036	.090	.100	.005	.036	33-10418-1
3	.036	.090	.100	.005	.020	33-10417-1

Replacement EMI Gaskets

Figure 1



Material: Conductive elastomer per MIL-G-83528, Type F.

Figure	Dimensions			Used With	Delta P/N
	A	B	C		
1	.162	.127	.040	Connectors with narrow (.190" wide) 2-hole flange	53-10025-3
1	.172	.140	.040	All other connectors	53-10025-2

**Competitive Cross-Reference**

Please note that these connectors are *functional equivalents* to the competitor part numbers shown. If you are using a competitor's connector in a critical application, please contact us for engineering assistance and samples to determine the compatibility of our connectors with your application.

AEP P/N	Delta P/N	Dynawave P/N	Delta P/N
920-55	41-10039-1	9854-0781-6220	1397-000-K051-018-EMI
920-56	41-10040-1	9854-0781-6220	1397-000-K051-019-EMI
920-69	41-10041-1	9854-0781-6227	1397-000-K911-027-EMI
920-82	41-10039-1	9854-0781-6227	1397-000-K911-028-EMI
9044-9513-000	1396-000-K921-021-EMI	9952-0081-6214	1396-000-K911-034
9044-9513-001	1396-000-K921-022-EMI	9952-0081-6214	1396-000-K911-035
9045-9513-000	1396-000-K051-020-EMI	9952-0081-6215	1396-000-K921-021
9045-9513-001	1396-000-K051-021-EMI	9952-0081-6215	1396-000-K921-022
9046-9513-000	1397-000-K921-022-EMI	9952-0081-6220	1396-000-K921-023
9046-9513-001	1397-000-K921-023-EMI	9952-0081-6220	1396-000-K921-024
9047-9513-000	1397-000-K051-016-EMI	9952-0081-6224	1396-000-K911-036
9047-9513-001	1397-000-K051-017-EMI	9952-0081-6224	1396-000-K911-037
9048-9513-000	1396-000-K921-023-EMI	9952-0781-6214	1396-000-K911-034-EMI
9049-9513-000	1396-000-K051-022-EMI	9952-0781-6214	1396-000-K911-035-EMI
9050-9513-000	1397-000-K921-024-EMI	9952-0781-6215	1396-000-K921-021-EMI
9051-9513-000	1397-000-K051-018	9952-0781-6215	1396-000-K921-022-EMI
9051-9513-000	1397-000-K051-018-EMI	9952-0781-6220	1396-000-K921-023-EMI
9062-9513-000	1396-000-K911-047-EMI	9952-0781-6220	1396-000-K921-024-EMI
9062-9513-001	1396-000-K911-048-EMI	9952-0781-6224	1396-000-K911-036-EMI
9068-9513-000	1396-000-K911-049-EMI	9952-0781-6224	1396-000-K911-037-EMI
9074-9513-000	1396-000-K911-040-EMI	9954-0081-6215	1396-000-K051-020
9079-9513-000	1396-000-K911-038-EMI	9954-0081-6215	1396-000-K051-021
9079-9513-001	1396-000-K911-039-EMI	9954-0081-6217	1396-000-K911-038
9080-9513-000	1396-000-K911-034-EMI	9954-0081-6217	1396-000-K911-039
9080-9513-001	1396-000-K911-035-EMI	9954-0081-6219	1396-000-K911-047
9081-9513-000	1396-000-K911-036-EMI	9954-0081-6219	1396-000-K911-048
9504-9113-031	1396-000-K051-023	9954-0081-6220	1396-000-K051-022
9507-9113-003	1396-000-K911-050	9954-0081-6220	1396-000-K051-023
9508-9113-002	1396-000-K921-024	9954-0081-6227	1396-000-K911-040
9576-9113-001	1396-000-K911-041	9954-0081-6227	1396-000-K911-041
		9954-0081-6229	1396-000-K911-049
		9954-0081-6229	1396-000-K911-050
		9954-0781-6215	1396-000-K051-020-EMI
		9954-0781-6215	1396-000-K051-021-EMI
		9954-0781-6217	1396-000-K911-038-EMI
		9954-0781-6217	1396-000-K911-039-EMI
		9954-0781-6219	1396-000-K911-047-EMI
		9954-0781-6219	1396-000-K911-048-EMI
		9954-0781-6220	1396-000-K051-022-EMI
		9954-0781-6220	1396-000-K051-023-EMI
		9954-0781-6227	1396-000-K911-040-EMI
		9954-0781-6227	1396-000-K911-041-EMI
		9954-0781-6229	1396-000-K911-049-EMI
		9954-0781-6229	1396-000-K911-050-EMI
		M/A-COM P/N	Delta P/N
		2051-3350-02	1397-000-K051-016-EMI
		2051-3352-02	1397-000-K051-018-EMI
		2051-3354-02	1397-000-K921-022-EMI
		2051-3356-02	1397-000-K921-024-EMI
		2051-3362-02	1397-000-K051-019
		2051-3363-02	1397-000-K921-025
		2052-3350-02	1396-000-K051-020-EMI
		2052-3352-02	1396-000-K051-022-EMI
		2052-3354-02	1396-000-K921-021-EMI
		2052-3356-02	1396-000-K921-023-EMI
		2052-3362-02	1396-000-K051-023
		2052-3363-02	1396-000-K921-024
		2052-3375-02	1396-000-K911-040-EMI
		2052-3393-02	1396-000-K911-038-EMI

**M/A-COM P/N****Delta P/N**

2052-3399-02	1396-000-K911-034-EMI
2052-3400-02	1396-000-K911-036-EMI
2052-3500-02	1396-000-K051-021-EMI
2052-3501-02	1396-000-K911-039-EMI
2052-3502-02	1396-000-K921-022-EMI
2052-3503-02	1396-000-K911-035-EMI
2098-3520-94	41-10038-1
2098-3251-94	41-10040-1
2098-3441-94	41-10039-1

SV Microwave P/N**Delta P/N**

SF2950-6780	1396-000-K921-027-EMI
SF2950-6780	1396-000-K921-028-EMI
SF2950-6786	1396-000-K921-021
SF2951-6122	1396-000-K921-022
SF2950-6784	1396-000-K921-023
SF2950-6784	1396-000-K921-024
SF2950-6720	1396-000-K921-021-EMI
SF2951-6110	1396-000-K921-022-EMI
SF2951-6121	1396-000-K911-030
SF2950-6920	1396-000-K911-034
SF2950-6955	1396-000-K911-037
SF2950-6619	1396-000-K051-020
SF2951-6125	1396-000-K051-021
SF2950-6662	1396-000-K051-022
SF2950-6662	1396-000-K051-023
SF2950-6769	1396-000-K051-020-EMI
SF2951-6146	1396-000-K051-021-EMI
SF2950-6789	1396-000-K051-022-EMI
SF2950-6789	1396-000-K051-023-EMI
SF2951-6114	1396-000-K911-038
SF2951-6124	1396-000-K911-039
SF2951-6115	1396-000-K911-040
SF2951-6106	1396-000-K911-038-EMI
SF2951-6107	1396-000-K911-040-EMI
SF2951-6107	1396-000-K911-041-EMI
SF2951-6112	1396-000-K911-039-EMI
SF2951-6115	1396-000-K911-041
SF2955-6177	1397-000-K921-022-EMI
SF2955-6178	1397-000-K051-018-EMI
SF2955-6178	1397-000-K051-019-EMI
SF2955-6197	1397-000-K921-024-EMI
SF2955-6197	1397-000-K921-025-EMI
SF2955-6296	1397-000-K051-016
SF2955-6297	1397-000-K051-018
SF2955-6298	1397-000-K921-022
SF2955-6299	1397-000-K921-024
SF2955-6299	1397-000-K921-025
SF2955-6305	1397-000-K921-023-EMI
SF2955-6306	1397-000-K051-017-EMI
SF2955-6308	1397-000-K051-016-EMI
SF2955-6320	1397-000-K911-016
SF2955-6321	1397-000-K911-017
SF2955-6322	1397-000-K911-018
SF2955-6322	1397-000-K911-019
SF2955-6323	1397-000-K911-034-EMI
SF2955-6324	1397-000-K911-035-EMI
SF2955-6325	1397-000-K911-036-EMI
SF2955-6325	1397-000-K911-037-EMI
SF2955-6326	1397-000-K911-034
SF2955-6327	1397-000-K911-036
SF2955-6327	1397-000-K911-037
SF2955-6333	1397-000-K921-023
SF2955-6334	1397-000-K911-035
SF2955-6335	1397-000-K051-017
SF2965-6297	1397-000-K051-018

Tensolite (CDI) P/N**Delta P/N**

4004-5	41-10038-1
4004-9	41-10039-1
4004-11	41-10040-1
4004-13	41-10041-1
5601-1CCSF	1396-000-K911-033-EMI
5601-2CCSF	1396-000-K911-032-EMI
5601-4CCSF	1396-000-K911-029-EMI
5601-5CCSF	1396-000-K911-030-EMI
5601-6CCSF	1396-000-K911-031-EMI
5602-2CCSF	1396-000-K921-024-EMI
5602-4CCSF	1396-000-K921-021-EMI
5602-5CCSF	1396-000-K921-022-EMI
5602-6CCSF	1396-000-K921-023-EMI
5603-2CCSF	1396-000-K911-041-EMI
5603-4CCSF	1396-000-K911-038-EMI
5603-5CCSF	1396-000-K911-039-EMI
5603-6CCSF	1396-000-K911-040-EMI
5604-2CCSF	1396-000-K051-023-EMI
5604-4CCSF	1396-000-K051-020-EMI
5604-5CCSF	1396-000-K051-021-EMI
5604-6CCSF	1396-000-K051-022-EMI
5605-2CCSF	1396-000-K911-050-EMI
5605-4CCSF	1396-000-K911-047-EMI
5605-5CCSF	1396-000-K911-048-EMI
5605-6CCSF	1396-000-K911-049-EMI
5606-2CCSF	1397-000-K921-025-EMI
5606-4CCSF	1397-000-K921-022-EMI
5606-5CCSF	1397-000-K921-023-EMI
5606-6CCSF	1397-000-K921-024-EMI
5607-2CCSF	1397-000-K911-028-EMI
5607-4CCSF	1397-000-K911-025-EMI
5607-5CCSF	1397-000-K911-026-EMI
5607-6CCSF	1397-000-K911-027-EMI
5608-2CCSF	1397-000-K051-019-EMI
5608-4CCSF	1397-000-K051-016-EMI
5608-5CCSF	1397-000-K051-017-EMI
5608-6CCSF	1397-000-K051-018-EMI
5609-2CCSF	1397-000-K911-037-EMI
5609-4CCSF	1397-000-K911-034-EMI
5609-5CCSF	1397-000-K911-035-EMI
5609-6CCSF	1397-000-K911-036-EMI
5633-1CCSF	1397-000-K911-015-EMI
5633-2CCSF	1397-000-K911-014-EMI
5633-4CCSF	1397-000-K911-011-EMI
5633-5CCSF	1397-000-K911-012-EMI
5633-6CCSF	1397-000-K911-013-EMI
5634-2CCSF	1396-000-K911-037-EMI
5634-4CCSF	1396-000-K911-034-EMI
5634-5CCSF	1396-000-K911-035-EMI
5634-6CCSF	1396-000-K911-036-EMI
5635-2CCSF	1397-000-K911-019-EMI
5635-4CCSF	1397-000-K911-016-EMI
5635-5CCSF	1397-000-K911-017-EMI
5635-6CCSF	1397-000-K911-018-EMI
5663-2CCSF	1396-000-K921-024
5663-4CCSF	1396-000-K921-021
5663-5CCSF	1396-000-K921-022
5663-6CCSF	1396-000-K921-023
5664-2CCSF	1397-000-K921-025
5664-4CCSF	1397-000-K921-022
5664-5CCSF	1397-000-K921-023
5664-6CCSF	1397-000-K921-024
5665-2CCSF	1396-000-K051-023
5665-4CCSF	1396-000-K051-020
5665-5CCSF	1396-000-K051-021
5665-6CCSF	1396-000-K051-022

**Tensolite (CDI) P/N****Delta P/N**

5666-2CCSF	1397-000-K051-019
5666-4CCSF	1397-000-K051-016
5666-5CCSF	1397-000-K051-017
5666-6CCSF	1397-000-K051-018
5668-2CCSF	1396-000-K911-050
5668-4CCSF	1396-000-K911-047
5668-5CCSF	1396-000-K911-048
5668-6CCSF	1396-000-K911-049
5669-2CCSF	1397-000-K911-037
5669-4CCSF	1397-000-K911-034
5669-5CCSF	1397-000-K911-035
5669-6CCSF	1397-000-K911-036
5674-1CCSF	1396-000-K911-033
5674-2CCSF	1396-000-K911-032
5674-4CCSF	1396-000-K911-029
5674-5CCSF	1396-000-K911-030
5674-6CCSF	1396-000-K911-031
5675-1CCSF	1397-000-K911-015
5675-2CCSF	1397-000-K911-014
5675-4CCSF	1397-000-K911-011
5675-5CCSF	1397-000-K911-012
5675-6CCSF	1397-000-K911-013
5678-2CCSF	1396-000-K911-037
5678-4CCSF	1396-000-K911-034
5678-5CCSF	1396-000-K911-035
5678-6CCSF	1396-000-K911-036
5679-2CCSF	1397-000-K911-019
5679-4CCSF	1397-000-K911-016
5679-5CCSF	1397-000-K911-017
5679-6CCSF	1397-000-K911-018
5680-1CCSF	1396-000-K051-019
5680-2CCSF	1396-000-K051-018
5680-4CCSF	1396-000-K051-015
5680-5CCSF	1396-000-K051-016
5680-6CCSF	1396-000-K051-017
5681-1CCSF	1396-000-K921-029
5681-2CCSF	1396-000-K921-028
5681-4CCSF	1396-000-K921-025
5681-5CCSF	1396-000-K921-026
5681-6CCSF	1396-000-K921-027
5683-1CCSF	1397-000-K921-021
5683-2CCSF	1397-000-K921-020
5683-4CCSF	1397-000-K921-017
5683-5CCSF	1397-000-K921-018
5683-6CCSF	1397-000-K921-019
5684-1CCSF	1396-000-K051-019-EMI
5684-2CCSF	1396-000-K051-018-EMI
5684-4CCSF	1396-000-K051-015-EMI
5684-5CCSF	1396-000-K051-016-EMI
5684-6CCSF	1396-000-K051-017-EMI
5685-1CCSF	1396-000-K921-029-EMI
5685-2CCSF	1396-000-K921-028-EMI
5685-4CCSF	1396-000-K921-025-EMI
5685-5CCSF	1396-000-K921-026-EMI
5685-6CCSF	1396-000-K921-027-EMI
5686-1CCSF	1397-000-K051-015-EMI
5686-2CCSF	1397-000-K051-014-EMI
5686-4CCSF	1397-000-K051-011-EMI
5686-5CCSF	1397-000-K051-012-EMI
5686-6CCSF	1397-000-K051-013-EMI
5687-1CCSF	1397-000-K921-021-EMI
5687-2CCSF	1397-000-K921-020-EMI
5687-4CCSF	1397-000-K921-017-EMI
5687-5CCSF	1397-000-K921-018-EMI
5687-6CCSF	1397-000-K921-019-EMI
5715-1CCSF	1396-000-K911-046-EMI

Tensolite (CDI) P/N**Delta P/N**

5715-2CCSF	1396-000-K911-045-EMI
5715-4CCSF	1396-000-K911-042-EMI
5715-5CCSF	1396-000-K911-043-EMI
5715-6CCSF	1396-000-K911-044-EMI
5716-1CCSF	1397-000-K911-033-EMI
5716-2CCSF	1397-000-K911-032-EMI
5716-4CCSF	1397-000-K911-029-EMI
5716-5CCSF	1397-000-K911-030-EMI
5716-6CCSF	1397-000-K911-031-EMI
5717-1CCSF	1396-000-K911-046
5717-2CCSF	1396-000-K911-045
5717-4CCSF	1396-000-K911-042
5717-5CCSF	1396-000-K911-043
5717-6CCSF	1396-000-K911-044
5718-1CCSF	1397-000-K911-033
5718-2CCSF	1397-000-K911-032
5718-4CCSF	1397-000-K911-029
5718-5CCSF	1397-000-K911-030
5718-6CCSF	1397-000-K911-031
5780-1CCSF	1397-000-K051-015
5780-2CCSF	1397-000-K051-014
5780-4CCSF	1397-000-K051-011
5780-5CCSF	1397-000-K051-012
5780-6CCSF	1397-000-K051-013
5923-1CCSF	1396-000-K911-027
5923-2CCSF	1396-000-K911-026
5923-4CCSF	1396-000-K911-023
5923-5CCSF	1396-000-K911-024
5923-6CCSF	1396-000-K911-025
5925-1CCSF	1397-000-K911-024
5925-2CCSF	1397-000-K911-023
5925-4CCSF	1397-000-K911-020
5925-5CCSF	1397-000-K911-021
5925-6CCSF	1397-000-K911-022
5935-1CCSF	1396-000-K911-027-EMI
5935-2CCSF	1396-000-K911-026-EMI
5935-4CCSF	1396-000-K911-023-EMI
5935-5CCSF	1396-000-K911-024-EMI
5935-6CCSF	1396-000-K911-025-EMI
5936-1CCSF	1397-000-K911-024-EMI
5936-2CCSF	1397-000-K911-023-EMI
5936-4CCSF	1397-000-K911-020-EMI
5936-5CCSF	1397-000-K911-021-EMI
5936-6CCSF	1397-000-K911-022-EMI
5941-2CCSF	1396-000-K911-041
5941-4CCSF	1396-000-K911-038
5941-5CCSF	1396-000-K911-039
5941-6CCSF	1396-000-K911-040
5942-2CCSF	1397-000-K911-028
5942-4CCSF	1397-000-K911-025
5942-5CCSF	1397-000-K911-026
5942-6CCSF	1397-000-K911-027

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33-10415-1	15	1396-000-K051-023-EMI	9	1396-000-K921-022	8	1397-000-K911-022-EMI	11
33-10416-1	15	1396-000-K911-023	6	1396-000-K921-022-EMI	9	1397-000-K911-023	10
33-10417-1	15	1396-000-K911-023-EMI	7	1396-000-K921-023	8	1397-000-K911-023-EMI	11
33-10418-1	15	1396-000-K911-024	6	1396-000-K921-023-EMI	9	1397-000-K911-024	10
33-10432-1	15	1396-000-K911-024-EMI	7	1396-000-K921-024	8	1397-000-K911-024-EMI	11
41-10038-1	15	1396-000-K911-025	6	1396-000-K921-024-EMI	9	1397-000-K911-025	12
41-10039-1	15	1396-000-K911-025-EMI	7	1396-000-K921-025	6	1397-000-K911-025-EMI	13
41-10040-1	15	1396-000-K911-026	6	1396-000-K921-025-EMI	7	1397-000-K911-026	12
41-10041-1	15	1396-000-K911-026-EMI	7	1396-000-K921-026	6	1397-000-K911-026-EMI	13
41-10042-1	15	1396-000-K911-027	6	1396-000-K921-026-EMI	7	1397-000-K911-027	12
53-10025-2	15	1396-000-K911-027-EMI	7	1396-000-K921-027	6	1397-000-K911-027-EMI	13
53-10025-3	15	1396-000-K911-029	6	1396-000-K921-027-EMI	7	1397-000-K911-028	12
1301-025-K003-900	4	1396-000-K911-029-EMI	7	1396-000-K921-028	6	1397-000-K911-028-EMI	13
1301-031-K003-900	4	1396-000-K911-030	6	1396-000-K921-028-EMI	7	1397-000-K911-029	10
1308-025-G003-900	4	1396-000-K911-030-EMI	7	1396-000-K921-029	6	1397-000-K911-029-EMI	11
1308-031-G003-900	4	1396-000-K911-031	6	1396-000-K921-029-EMI	7	1397-000-K911-030	10
1317-025-G673-900	4	1396-000-K911-031-EMI	7	1397-000-K051-011	10	1397-000-K911-030-EMI	11
1317-031-G673-900	4	1396-000-K911-032	6	1397-000-K051-011-EMI	11	1397-000-K911-031	10
1321-000-G821-900	14	1396-000-K911-032-EMI	7	1397-000-K051-012	10	1397-000-K911-031-EMI	11
1321-000-G821-901	14	1396-000-K911-033	6	1397-000-K051-012-EMI	11	1397-000-K911-032	10
1321-000-K821-900	14	1396-000-K911-033-EMI	7	1397-000-K051-013	10	1397-000-K911-032-EMI	11
1321-000-K821-901	14	1396-000-K911-034	8	1397-000-K051-013-EMI	11	1397-000-K911-033	10
1327-000-G001-900	14	1396-000-K911-034-EMI	9	1397-000-K051-014	10	1397-000-K911-033-EMI	11
1327-000-K001-900	14	1396-000-K911-035	8	1397-000-K051-014-EMI	11	1397-000-K911-034	12
1328-000-G001-900	14	1396-000-K911-035-EMI	9	1397-000-K051-015	10	1397-000-K911-034-EMI	13
1328-000-K001-900	14	1396-000-K911-036	8	1397-000-K051-015-EMI	11	1397-000-K911-035	12
1334-000-G001-900	14	1396-000-K911-036-EMI	9	1397-000-K051-016	12	1397-000-K911-035-EMI	13
1334-000-K001-900	14	1396-000-K911-037	8	1397-000-K051-016-EMI	13	1397-000-K911-036	12
1358-000-G051-900	5	1396-000-K911-037-EMI	9	1397-000-K051-017	12	1397-000-K911-036-EMI	13
1358-000-G911-900	5	1396-000-K911-038	8	1397-000-K051-017-EMI	13	1397-000-K911-037	12
1358-000-G921-900	5	1396-000-K911-038-EMI	9	1397-000-K051-018	12	1397-000-K911-037-EMI	13
1358-000-K051-900	5	1396-000-K911-039	8	1397-000-K051-018-EMI	13	1397-000-K921-017	10
1358-000-K911-900	5	1396-000-K911-039-EMI	9	1397-000-K051-019	12	1397-000-K921-017-EMI	11
1358-000-K921-900	5	1396-000-K911-040	8	1397-000-K051-019-EMI	13	1397-000-K921-018	10
1359-000-G051-900	5	1396-000-K911-040-EMI	9	1397-000-K911-011	10	1397-000-K921-018-EMI	11
1359-000-G911-900	5	1396-000-K911-041	8	1397-000-K911-011-EMI	11	1397-000-K921-019	10
1359-000-G921-900	5	1396-000-K911-041-EMI	9	1397-000-K911-012	10	1397-000-K921-019-EMI	11
1359-000-K051-900	5	1396-000-K911-042	6	1397-000-K911-012-EMI	11	1397-000-K921-020	10
1359-000-K911-900	5	1396-000-K911-042-EMI	7	1397-000-K911-013	10	1397-000-K921-020-EMI	11
1396-000-K051-015	6	1396-000-K911-043	6	1397-000-K911-013-EMI	11	1397-000-K921-021	10
1396-000-K051-015-EMI	7	1396-000-K911-043-EMI	7	1397-000-K911-014	10	1397-000-K921-021-EMI	11
1396-000-K051-016	6	1396-000-K911-044	6	1397-000-K911-014-EMI	11	1397-000-K921-022	12
1396-000-K051-016-EMI	7	1396-000-K911-044-EMI	7	1397-000-K911-015	10	1397-000-K921-022-EMI	13
1396-000-K051-017	6	1396-000-K911-045	6	1397-000-K911-015-EMI	11	1397-000-K921-023	12
1396-000-K051-017-EMI	7	1396-000-K911-045-EMI	7	1397-000-K911-016	12	1397-000-K921-023-EMI	13
1396-000-K051-018	6	1396-000-K911-046	6	1397-000-K911-016-EMI	13	1397-000-K921-024	12
1396-000-K051-018-EMI	7	1396-000-K911-046-EMI	7	1397-000-K911-017	12	1397-000-K921-024-EMI	13
1396-000-K051-019	6	1396-000-K911-047	8	1397-000-K911-017-EMI	13	1397-000-K921-025	12
1396-000-K051-019-EMI	7	1396-000-K911-047-EMI	9	1397-000-K911-018	12	1397-000-K921-025-EMI	13
1396-000-K051-020	8	1396-000-K911-048	8	1397-000-K911-018-EMI	13		
1396-000-K051-020-EMI	9	1396-000-K911-048-EMI	9	1397-000-K911-019	12		
1396-000-K051-021	8	1396-000-K911-049	8	1397-000-K911-019-EMI	13		
1396-000-K051-021-EMI	9	1396-000-K911-049-EMI	9	1397-000-K911-020	10		
1396-000-K051-022	8	1396-000-K911-050	8	1397-000-K911-020-EMI	11		
1396-000-K051-022-EMI	9	1396-000-K911-050-EMI	9	1397-000-K911-021	10		
1396-000-K051-023	8	1396-000-K921-021	8	1397-000-K911-021-EMI	11		
		1396-000-K921-021-EMI	9	1397-000-K911-022	10		

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