COAXIAL

Coaxial is the description for electrical feedthroughs with parallel and concentric conductor paths, and with the inner most conductor path electrically isolated from the vacuum flange. Grounded Shield versions have one isolated path, and Floating Shield versions have two. Coaxial feedthroughs are single-ended or double-ended, and all types include air-side connectors.

MPF offers several mounting options for coaxial feedthroughs: Weldable, Quick Flange (QF), and Conflat Flange (CF). Most designs are also configured for Baseplate and NPT style adapters. Custom adapters, plates and flange configurations are available by request.

BNC and MHV

Bayonet Naval Connector (BNC) feedthroughs are very popular due to their quick connect coupling and compact overall size. BNC series are commonly used for low power transmission and are rated to 500 Volts DC.

Miniature High Voltage (MHV) feedthroughs are very similar to the BNC series, but the MHV series is capable of handling much higher power transmission. Although they are very similar in design, MHV and BNC connectors are not compatible. MHV feedthroughs and mating connectors are rated to 5000 Volts DC.



SHV-5 and SHV-10

Safe High Voltage (SHV) feedthroughs are like the MHV series, with the primary difference being the pin and contact configuration. SHV cable connectors have a recessed female contact which helps prevent shock hazards when the connector is disengaged.

This recessed contact design is an improvement over the MHV design, and becomes increasingly important in higher power applications. The SHV-5 and SHV-10 series are rated for up to 5 Amps and 5000 or 10,000 Volts DC respectively. Both are offered in single and double-ended versions.



SHV-20 and SHV-B

SHV-20 feedthroughs are rated for 20,000 Volts DC and up to 15 Amps. These specially designed interfaces incorporate standard high voltage contacts, and are designed for increased performance in pulsed high voltage applications.

SHV-B feedthroughs are designed for bakeout at higher temperatures than the other SHV series. The air-side cable connectors included with these feedthroughs utilize a ceramic dielectric material. SHV-B feedthroughs and connectors are rated for 7500 Volts DC and up to 3 Amps.













Type N feedthroughs combine the most popular medium-sized high frequency connector with a feedthrough designed to perform in high and ultra-high vacuum applications. The standard Type N series is suitable for use to 1 GHz. Type N feedthroughs and mating connectors are rated for 500 Volts DC and up to 3 Amps.

Subminiature Type-A (SMA) feedthroughs are compact designs suited for medium-to-high frequency applications. Similar to the Type N series, the standard SMA series is suitable for use to 1 GHz. SMA feedthroughs and connectors are rated for 700 Volts DC and up to 1 Amp. The floating shield version is rated to 2500 Volts DC.



Type N and SMA - 50 Ohm - Matched Impedance

Both Type N and SMA feedthroughs are also offered with increased signal transmission performance. These high-vacuum feedthrough designs have been engineered for improved RF performance in high frequency applications up to 8 GHz.

Unlike the standard Type N and SMA feedthroughs which are intended for UHV applications, these matched impedance versions utilize a Teflon dielectric spacer. This design parameter optimizes electrical performance but requires consideration in some vacuum environments.

High Performance SMA rated to 18 Ghz also available.



Microdot and Between Series

Microdot style feedthroughs are the smallest UHV design with a threaded connector interface. This connector style is commonly used in vacuum coating applications, particularly in the construction of crystal sensor deposition monitors.

Crystal Sensor assemblies often utilize a BNC-Microdot 'between series' feedthrough, which is designed with a BNC connection on the air-side and a Microdot connection on the vacuum-side. Standard configurations available.

Type N to SMA feedthroughs are typically used in Beam Position Monitor (BPM) applications. Single, double, and custom configurations are available.



Operating Conditions

The electrical and thermal ratings specified are safe operating limits determined by various factors including material properties, mechanical design, and the intended operating environment. All electrical ratings are based on operation with one side in dry atmosphere and the other side in vacuum of 1 x 10^{-4} Torr maximum pressure. Temperature ratings for various mounting options may reduce the operating range of an assembly. All assemblies have a maximum thermal gradient of 25° C per minute and may be damaged if this limit is exceeded.



COAXIAL

Section 5:

Section	Туре	Sub-type	Grounded / Floating Shield	Single / Double Ended
5.1	BNC		Grounded	Single / Double
5.1	DIVC		Floating	Single / Double
5.2	MHV		Grounded	Single / Double
5.2	IVITIV		Floating	Single / Double
		SHV-5	Grounded	Single / Double
		SHV-5	Floating	Single
5.3	SHV	SHV-10	Grounded	Single / Double
		SHV-20	Grounded	Single
		SHV-B	Grounded	Single
5.4	Toma N	Standard	Grounded	Single
5.4	Type N	High Frequency	Grounded	Single / Double
		Standard	Grounded	Single
5.5	SMA	Standard	Floating	Single
		High Frequency	Grounded	Single / Double
5.6	Microdot		Grounded	Single
E 7	Between	BNC to Microdot	Grounded	Double
5.7	Series	Type N to SMA	Grounded	Double



Contents

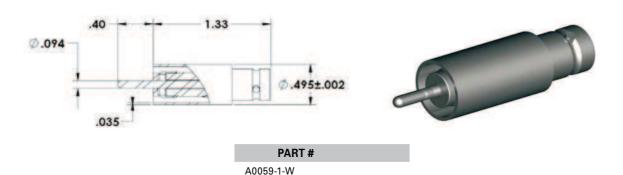
Electrical Rating	Thermal Rating	Conductor	Impedance	Pages	
Voltage: 500 Volts DC Current: 3 Amps	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	304 Stainless Steel	Non-constant	124-135	
Voltage: 2500 Volts DC Current: 3 Amps	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	304 Stainless Steel	Non-constant	124-135	
Voltage: 5000 Volts DC Current: 3 Amps	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	304 Stainless Steel	Non-constant	136-146	
Voltage: 2500 Volts DC Current: 3 Amps	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	304 Stainless Steel	Non-constant	130-140	
Voltage: 5000 Volts DC Current: 5 Amps	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	Nickel	Non-constant		
Voltage: 2500 Volts DC Current: 5 Amps	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	Nickel	Non-constant		
Voltage: 10,000 Volts DC Current: 5 Amps	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	Nickel	Non-constant	147-163	
Voltage: 20,000 Volts DC Current: 15 Amps	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	Nickel	Non-constant		
Voltage: 7500 Volts DC Current: 3 Amps	Feedthrough: -200 to 450°C Air-side Connector: -200 to 300°C	304 Stainless Steel	Non-constant		
Voltage: 500 Volts DC Current: 3 Amps	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	304 Stainless Steel	Non-constant	164-166	
Voltage: 500 Volts DC Current: 3 Amps	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	304 Stainless Steel	50 Ohms	104-100	
Voltage: 700 Volts DC Current: 1 Amp	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	304 Stainless Steel	Non-constant		
Voltage: 2500 Volts DC Current: 1 Amp	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	304 Stainless Steel	Non-constant	167-171	
Voltage: 700 Volts DC Current: 1 Amp	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	304 Stainless Steel	50 Ohms		
Voltage: 500 Volts DC Current: 2 Amps	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	Molybdenum	Non-constant	172	
Voltage: 500 Volts DC Current: 2 Amps	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	304 Stainless Steel	Non-constant	173-177	
Voltage: 500 Volts DC Current: 1 Amp	Feedthrough: -200 to 450°C Air-side Connector: -65 to 165°C	304 Stainless Steel	Non-constant	1/3-1//	



500 Volts DC / 3 Amps Air-side Connector Included

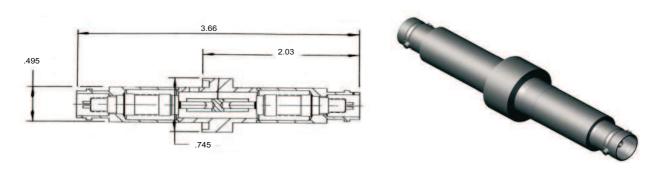
Grounded Shield — Single-ended

WELDABLE



A0059-2-W (w/o connector)

Grounded Shield — Double-ended WELDABLE



PART#

A0471-1-W

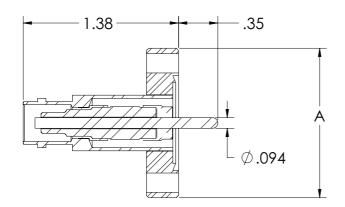




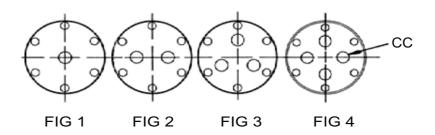


500 Volts DC / 3 Amps Air-side Connector Included

Grounded Shield — Single-ended CONFLAT FLANGE







PINS	FIG	CF FLANGE	Α	CC	PART #	
1	1	CF16	1.33		A0237-1-CF	
1	1	CF40	2.75		A0289-1-CF	
2	2	CF40	2.75	.75	A0291-1-CF	
3	3	CF40	2.75	.95	A0293-1-CF	
4	4	CF40	2.75	.95	A0295-1-CF	

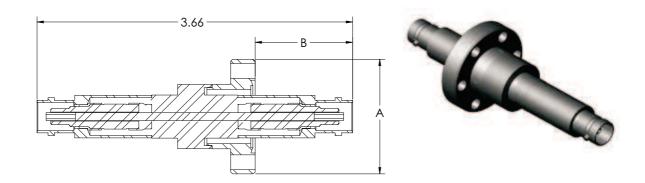


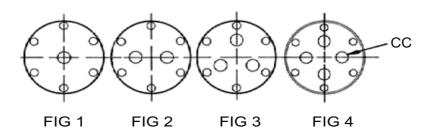


500 Volts DC / 3 Amps Air-side Connector Included

Grounded Shield — Double-ended

CONFLAT FLANGE





PINS	FIG	CF FLANGE	Α	В	CC	PART #	
1	1	CF16	1.33	1.14		A0472-1-CF	
1	1	CF40	2.75	1.58		A0473-1-CF	
2	2	CF40	2.75	1.58	.75	A0473-3-CF	
3	3	CF50	3.38	1.58	.95	A0473-5-CF	
4	4	CF63	4.50	1.58	.95	A7231-1-CF	

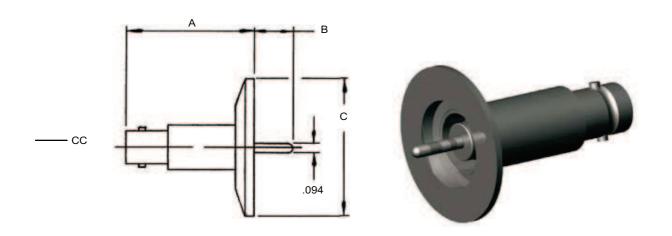


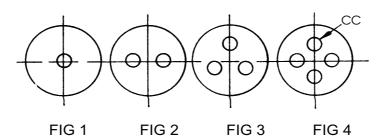




500 Volts DC / 3 Amps Air-side Connector Included

Grounded Shield — Single-ended QUICK FLANGE





PINS	FIG	Α	В	С	CC	PART#	
1	1	1.43	.30	1.18		A0476-1-QF	
1	1	1.33	.40	2.16		A0476-2-QF	
2	2	1.33	.40	2.16	.75	A0476-3-QF	
3	3	1.33	.40	2.95	.95	A0476-4-QF	
4	4	1.33	.40	2.16	.75	A6984-1-QF	
4	4	1.33	.40	2.95	.95	A0476-5-QF	

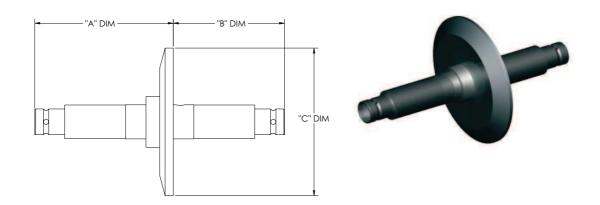


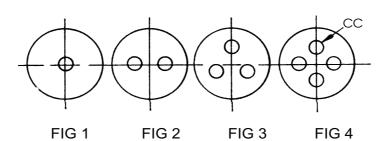


500 Volts DC / 3 Amps Air-side Connector Included

Grounded Shield — Double-ended

QUICK FLANGE





PINS	FIG	Α	В	С	CC	PART #	
1	1	1.13	2.53	1.18		A0479-1-QF	
1	1	2.03	1.63	2.16		A0478-3-QF	
2	2	2.03	1.63	2.95	.75	A0478-5-QF	
3	3	2.03	1.63	2.95	.95	A0478-7-QF	
4	4	2.03	1.63	2.95	.95	A7111-1-QF	







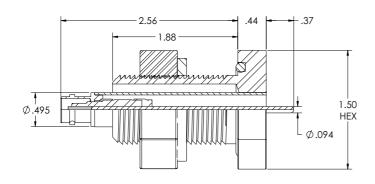
COAXIAI

BNC

500 Volts DC / 3 Amps Air-side Connector Included

Grounded Shield

1" BASEPLATE



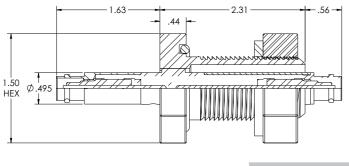


PART#

A0482-2-BP

Grounded Shield — Double-ended

1" BASEPLATE





PART#

A0484-1-BP

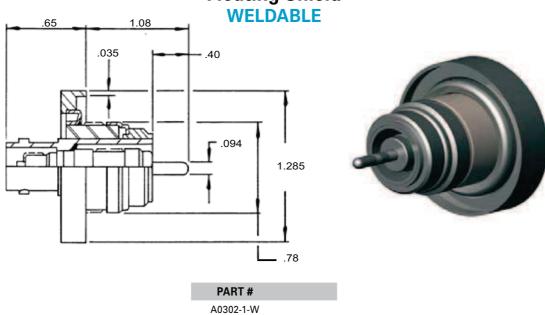






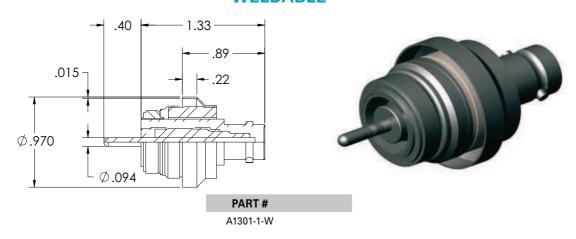
500 Volts DC / 3 Amps Air-side Connector Included

Floating Shield



Floating Shield

WELDABLE







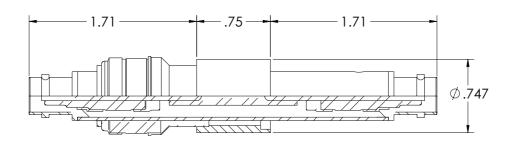


500 Volts DC / 3 Amps Air-side Connector Included

Floating Shield — Double-ended

WELDABLE





PART#

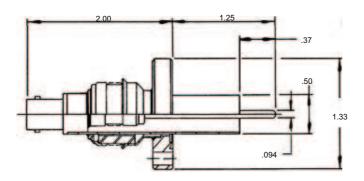
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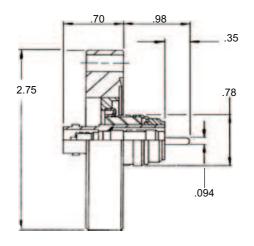
Floating Shield — Single-ended CONFLAT FLANGE





PART#

A0310-1-CF





PART#

A0304-1-CF



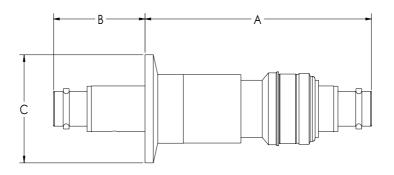




500 Volts DC / 3 Amps Air-side Connector Included

Floating Shield — Double-ended CONFLAT FLANGE





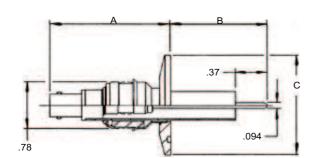
PINS	CF FLANGE	Α	В	D	PART #	
1	CF16	1.21	2.96	1.33	A0474-1-CF	
1	CF40	1.66	2.51	2.75	A0475-1-CF	





500 Volts DC / 3 Amps Air-side Connector Included

Floating Shield — Single-ended **QUICK FLANGE**

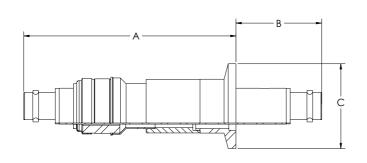




PINS	Α	В	С	PART #	
1	2.59	0.67	1.18	A0315-1-QF	
1	2.09	1.17	2.16	A0315-3-QF	

Floating Shield — Double-ended

QUICK FLANGE





PINS	Α	В	С	PART #	
1	2.96	1.21	1.18	A0480-1-QF	
1	2.46	1.71	2.16	A0481-1-QF	





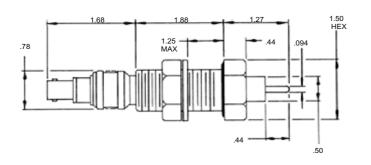




500 Volts DC / 3 Amps Air-side Connector Included

Floating Shield

1" BASEPLATE



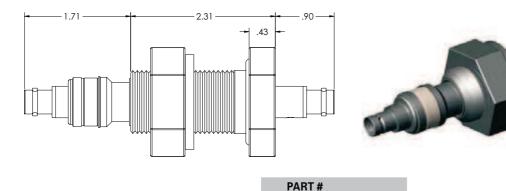


PART#

A0485-1-BP

Floating Shield — Double-ended

1" BASEPLATE



A0487-1-BP





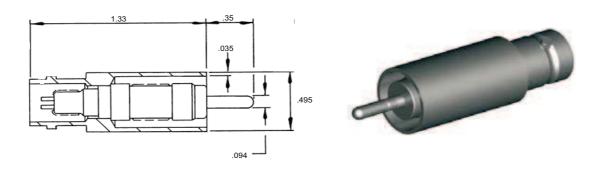


5000 Volts DC / 3 Amps

Air-side Connector Included

Grounded Shield

WELDABLE



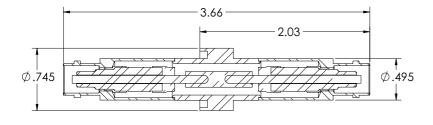
PART #

A0058-1-W

A0058-2-W (w/o connector)

Grounded Shield — Double-ended

WELDABLE





PART#

A0471-2-W

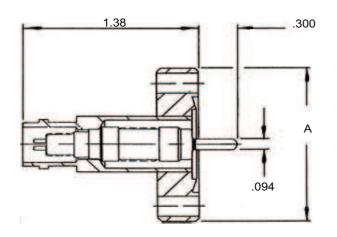




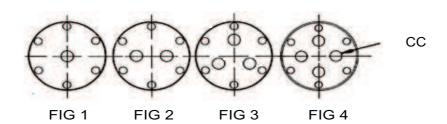


5000 Volts DC / 3 Amps *Air-side Connector Included*

Grounded Shield — Single-ended CONFLAT FLANGE







PINS	CF FLANGE	Α	CC	PART #	
1	CF16	1.33		A0238-1-CF	
1	CF40	2.75		A0290-1-CF	
2	CF40	2.75	.75	A0292-1-CF	
3	CF40	2.75	.95	A0294-1-CF	
4	CF40	2.75	.95	A0296-1-CF	

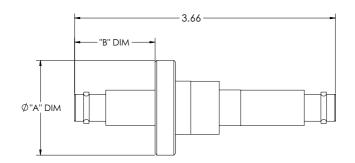




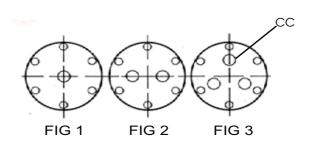
5000 Volts DC / 3 Amps *Air-side Connector Included*

Grounded Shield — Double-ended

CONFLAT FLANGE







PINS	FIG	CF FLANGE	Α	В	CC	PART #	
1	1	CF16	1.33	1.13		A0472-2-CF	
1	1	CF40	2.75	1.58		A0473-2-CF	
2	2	CF40	2.75	1.58	.75	A0473-4-CF	
3	3	CF50	3.38	1.58	.95	A0473-6-CF	

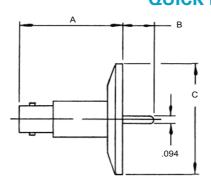






5000 Volts DC / 3 Amps *Air-side Connector Included*

Grounded Shield — Single-ended QUICK FLANGE

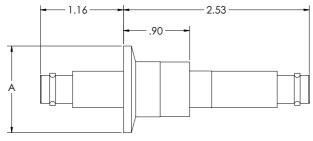




PINS	Α	В	С	CC	PART#	
1	1.43	.25	1.18		A0477-1-QF	
1	1.33	.35	2.16		A0477-2-QF	
2	1.33	.35	2.16	.75	A0477-3-QF	
3	1.33	.35	2.95	.95	A0477-4-QF	
4	1.33	.35	2.16	.75	A6984-2-QF	
4	1.33	.35	2.95	.95	A0477-5-QF	

Grounded Shield — Double-ended

QUICK FLANGE





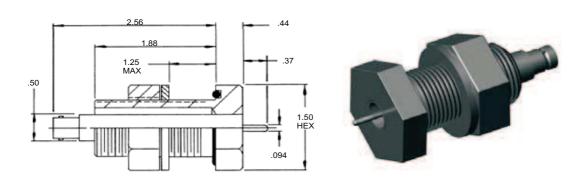
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1	2.16		A0748-4-QF	
2	2.16	.75	A0478-10-QF	
3	2.95	.95	A0478-8-QF	





5000 Volts DC / 3 Amps *Air-side Connector Included*

Grounded Shield — Single-ended 1" BASEPLATE

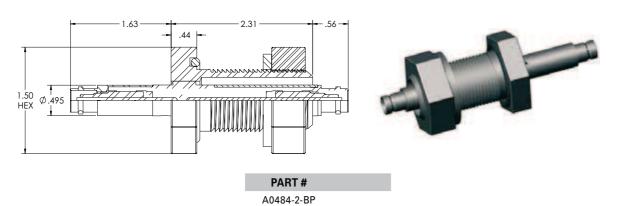


PART#

A0482-1-BP

Grounded Shield — Double-ended

1" BASEPLATE





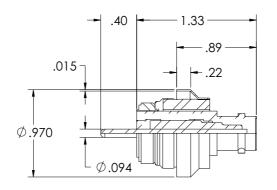




5000 Volts DC / 3 Amps *Air-side Connector Included*

${\bf Floating\ Shield\ -\ Single-ended}$

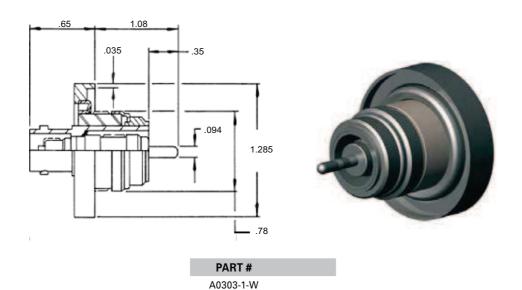
WELDABLE





PART#

A1301-3-W







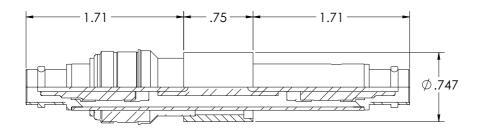


5000 Volts DC / 3 Amps

Air-side Connector Included

Floating Shield — Double-ended WELDABLE





PART#

A0466-2-W





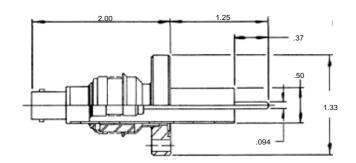


COAXIAL

MHV

5000 Volts DC / 3 Amps *Air-side Connector Included*

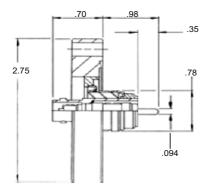
Floating Shield — Single-ended CONFLAT FLANGE





PART#

A0311-1-CF





PART#

A0305-1-CF

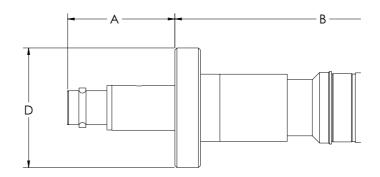




5000 Volts DC / 3 Amps *Air-side Connector Included*

Floating Shield — Double-ended CONFLAT FLANGE





PINS	CF FLANGE	Α	В	D	PART#	
1	CF16	1.21	2.96	1.33	A0474-2-CF	
1	CF40	1.66	2.51	2.75	A0475-2-CF	



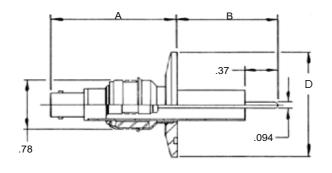




5000 Volts DC / 3 Amps *Air-side Connector Included*

Floating Shield — Single-ended

QUICK FLANGE

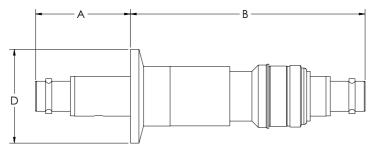




PINS	Α	В	D	PART #	
1	2.59	.67	1.18	A0316-1-QF	
1	2.09	1.17	2.16	A0316-3-QF	

Floating Shield — Double-ended

QUICK FLANGE





PINS	Α	В	D	PART #	
1	1.21	2.96	1.18	A0480-2-QF	
1	1.71	2.46	2.16	A0481-2-QF	

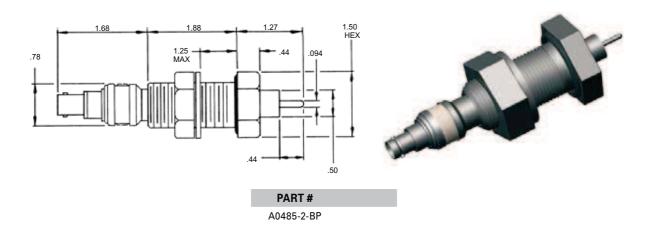




5000 Volts DC / 3 Amps Air-side Connector Included

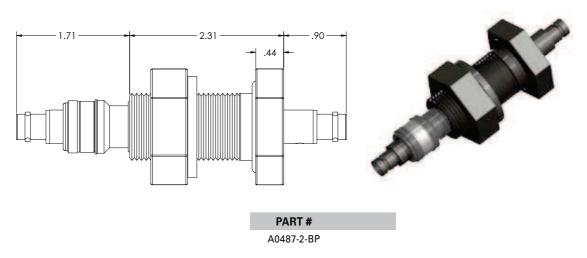
Floating Shield — Single-ended

1" BASEPLATE



Floating Shield — Double-ended

1" BASEPLATE









COAXIAL

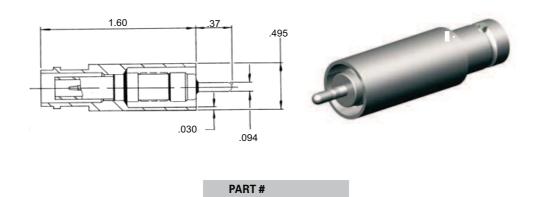
SHV-5

5000 Volts DC / 5 Amps

Air-side Connector Included

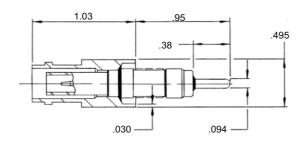
Grounded Shield — Recessed

WELDABLE



A0152-1-W

Grounded Shield — Exposed WELDABLE





PART#

A0328-1-W





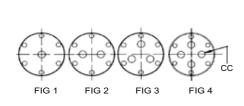
SHV-5

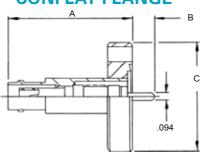
5000 Volts DC / 5 Amps

Air-side Connector Included

Grounded Shield — Recessed

CONFLAT FLANGE



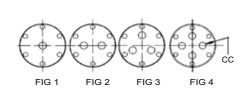


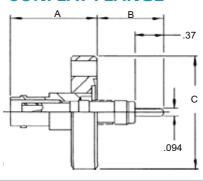


PINS	FIG	Α	В	С	CC	PART#	
1	1	1.65	.32	1.33		A0330-1-CF	
1	1	1.65	.32	2.75		A0331-1-CF	
2	2	1.65	.32	2.75	.75	A0332-1-CF	
3	3	1.65	.32	2.75	.95	A0333-1-CF	
4	4	1.65	.32	2.75	.95	A0334-1-CF	

${\bf Grounded\ Shield-Exposed}$

CONFLAT FLANGE







PINS	FIG	Α	В	С	CC	PART #	
1	1	1.08	.86	1.33		A0335-1-CF	
1	1	1.08	.86	2.75		A0336-1-CF	
2	2	1.08	.86	2.75	.75	A0337-1-CF	
3	3	1.08	.86	2.75	.95	A0338-1-CF	
4	4	1.08	86	2 75	95	Δ0339-1-CF	







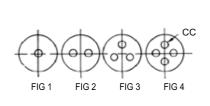
SHV-5

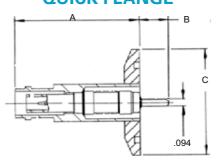
5000 Volts DC / 5 Amps

Air-side Connector Included

Grounded Shield — Recessed

QUICK FLANGE



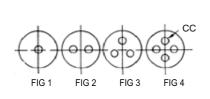


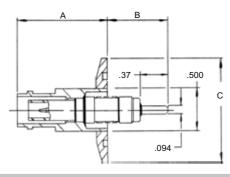


PINS	FIG	Α	В	С	CC	PART #	
1	1	1.70	.27	1.18		A0340-1-QF	
1	1	1.60	.37	2.16		A0341-1-QF	
2	2	1.60	.37	2.16	.75	A0342-1-QF	
3	3	1.60	.37	2.95	.95	A0343-1-QF	
4	4	1.60	.37	2.16	.75	A6984-3-QF	
4	4	1.60	.37	2.95	.95	A0344-1-QF	

${\bf Grounded\ Shield\ -\ Exposed}$

QUICK FLANGE







PINS	FIG	Α	В	С	CC	PART #	
1	1	1.13	.81	1.18		A0345-1-QF	
1	1	1.03	.91	2.16		A0346-1-QF	
2	2	1.03	.91	2.16	.75	A0347-1-QF	
3	3	1.03	.91	2.95	.95	A0348-1-QF	
4	4	1.03	91	2 95	95	A0349-1-OF	



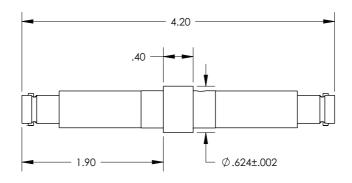


SHV-5 5000 Volts DC / 5 Amps

Air-side Connector Included

Grounded Shield — Double-ended WELDABLE





PART#

A0858-1-W





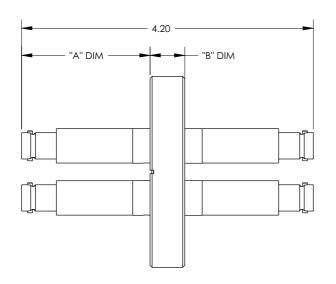


SHV-5

5000 Volts DC / 5 Amps *Air-side Connector Included*

Grounded Shield — Double-ended

CONFLAT FLANGE





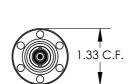


Fig. 1

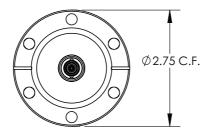


Fig. 2

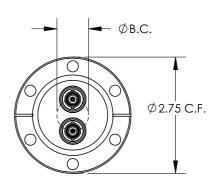


Fig. 3

FIG	PINS	Ø B.C.	"A" DIM	"B" DIM	PART #	
1	1		1.40	.285	A0472-5-CF	
2	1		1.85	.500	A0473-7-CF	
3	2	.75	1.85	.500	A0473-8-CF	

See Section 7 for connectors, wiring, and other accessories.



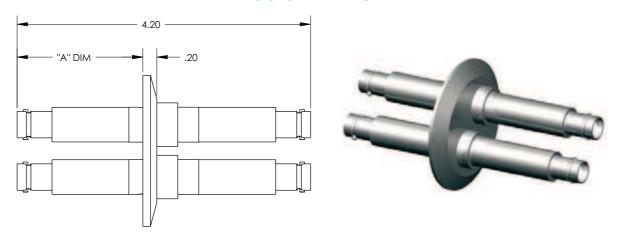


SHV-5

5000 Volts DC / 5 Amps *Air-side Connector Included*

Grounded Shield — Double-ended

QUICK FLANGE



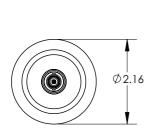


Fig. 1

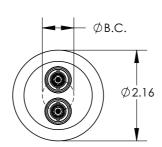


Fig. 2

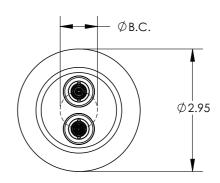


Fig. 3

FIG	PINS	Ø B.C.	"A" DIM	PART #	
1	1		1.80	A8271-1-QF	
2	2	.75	1.80	A0859-1-QF	
3	2	.90	1.90	A6974-1-QF	



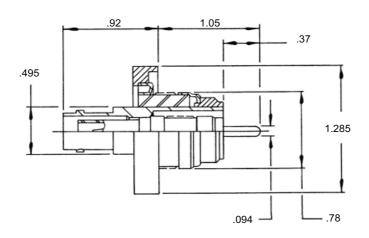




SHV-5 **5000 Volts DC / 5 Amps** *Air-side Connector Included*

Floating Shield — Single-ended **WELDABLE**





PART#

A0329-1-W





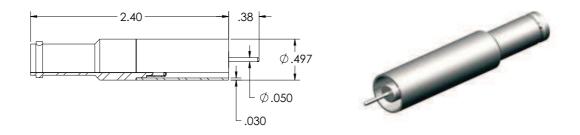


SHV-10

10,000 Volts DC / 5 Amps Air-side Connector Included

Grounded Shield — Recessed

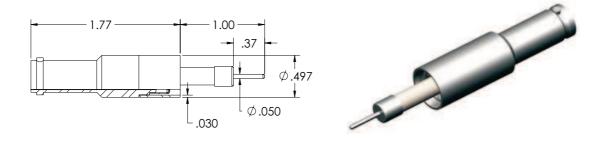
WELDABLE



TYPE	PART#	
RECESSED	A1499-1-W	

Grounded Shield — Exposed

WELDABLE



TYPE	PART #	
EXPOSED	A1497-1-W	







SHV-10

10,000 Volts DC / 5 Amps Air-side Connector Included

Grounded Shield — Recessed

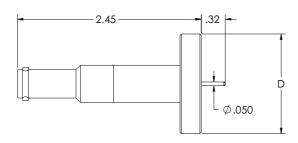
CONFLAT FLANGE













PINS	FIG	D	CC	PART #	
1	1	1.33 / CF16		A1600-1-CF	
1	1	2.75 / CF40		A1600-2-CF	
2	2	2.75 / CF40	.75	A1600-3-CF	
3	3	2.75 / CF40	.75	A1600-4-CF	
4	4	2.75 / CF40	.95	A1600-5-CF	

${\bf Grounded\ Shield\ -\ Exposed}$

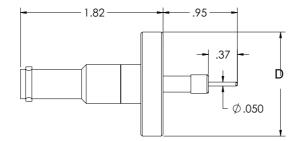
CONFLAT FLANGE













PINS	FIG	D	CC	PART #	
1	1	1.33 / CF16		A1601-1-CF	
1	1	2.75 / CF40		A1601-2-CF	
2	2	2.75 / CF40	.75	A1601-3-CF	
3	3	2.75 / CF40	.75	A1601-4-CF	
4	4	2.75 / CF40	.95	A1601-5-CF	

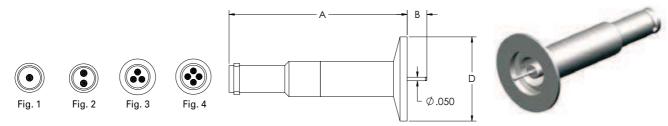




10,000 Volts DC / 5 Amps Air-side Connector Included

Grounded Shield — Recessed

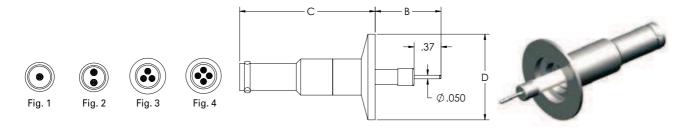
QUICK FLANGE



PINS	FIG	Α	В	D	CC	PART #	
1	1	2.49	.28	1.18 / QF16		A1602-1-QF	
1	1	2.39	.28	2.16 / QF40		A1602-2-QF	
2	2	2.39	.28	2.16 / QF40	.75	A1602-3-QF	
3	3	2.39	.28	2.95 / QF50	.75	A1602-4-QF	
4	4	2 39	28	2 95 / OF50	95	A1602-5-OF	

Grounded Shield — Exposed





PINS	FIG	В	С	D	CC	PART #	
1	1	1.87	.90	1.18 / QF16		A1603-1-QF	
1	1	1.77	1.00	2.16 / QF40		A1603-2-QF	
2	2	1.77	1.00	2.16 / QF40	.75	A1603-3-QF	
3	3	1.77	1.00	2.95 / QF50	.75	A1603-4-QF	
4	4	1.77	1.00	2.95 / QF50	.95	A1603-5-QF	



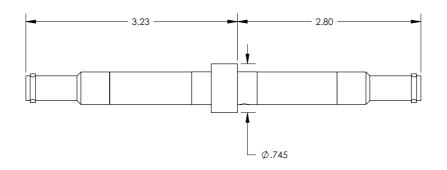


10,000 Volts DC / 5 Amps Air-side Connector Included

Grounded Shield — Double-ended

WELDABLE





PART#

A2613-3-W



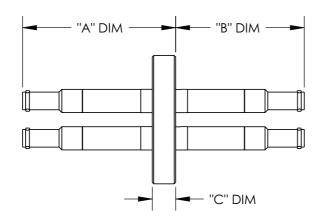




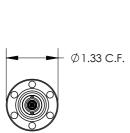
10,000 Volts DC / 5 Amps Air-side Connector Included

Grounded Shield — Double-ended

CONFLAT FLANGE









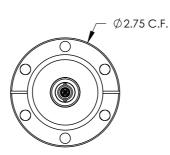


Fig. 2

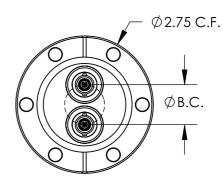


Fig. 3

FIG	PINS	Ø B.C.	"A" DIM	"B" DIM	"C" DIM	PART #	
1	1		3.73	2.30	.285	A8272-1-CF	
2	1		3.28	2.75	.500	A8272-2-CF	
3	2	.80	3.28	2.75	.500	A8272-3-CF	



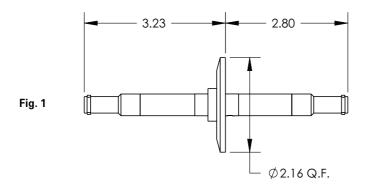




10,000 Volts DC / 5 Amps Air-side Connector Included

Grounded Shield — Double-ended

QUICK FLANGE





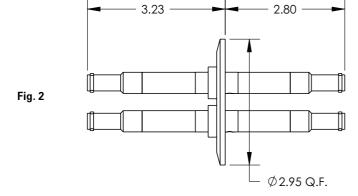


FIG	PINS	PART #	
1	1	A8273-1-QF	
2	2	A8273-2-QF	

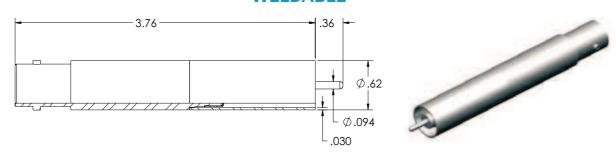




SHV-20 20,000 Volts DC / 15 Amps *Air-side Connector Included*

Grounded Shield — Recessed

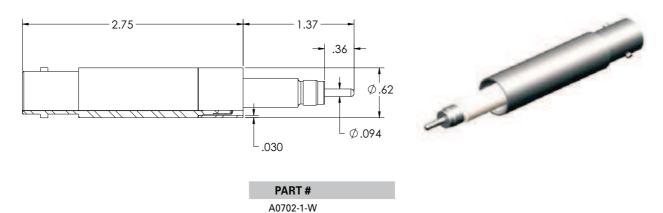
WELDABLE



PART# A0701-1-W

Grounded Shield — Exposed

WELDABLE





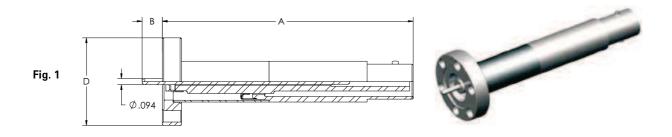


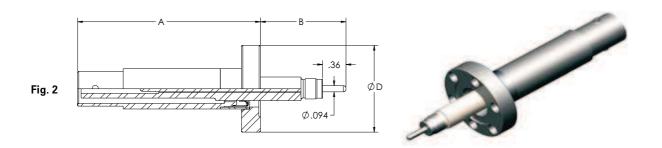


20,000 Volts DC / 15 Amps *Air-side Connector Included*

Grounded Shield — Recessed and Exposed

CONFLAT FLANGE





PINS	FIG	TYPE	Α	В	D	CC	PART#	
1	1	RECESSED	3.80	.32	1.33 / CF16		A0703-1-CF	
1	1	RECESSED	3.80	.32	2.75 / CF40		A2095-1-CF	
2	1	RECESSED	3.80	.32	2.75 / CF40	.95	A2300-1-CF	
1	2	EXPOSED	2.80	1.32	1.33 / CF16		A0704-1-CF	
1	2	EXPOSED	2.80	1.32	2.75 / CF40		A1909-1-CF	
2	2	EXPOSED	2.80	1.32	2.75 / CF40	.95	A2099-1-CF	

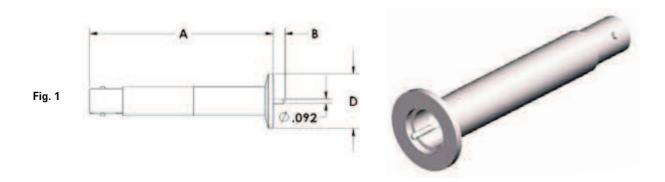


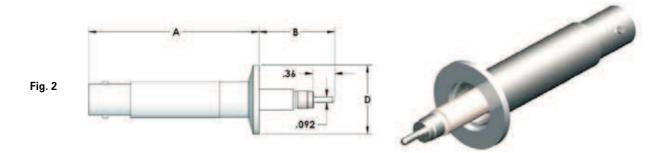


20,000 Volts DC / 15 Amps *Air-side Connector Included*

Grounded Shield — Recessed and Exposed

QUICK FLANGE





PINS	FIG	TYPE	Α	В	D	CC	PART #	
1	1	RECESSED	3.85	.27	1.18 / QF16		A2096-1-QF	
1	1	RECESSED	3.80	.37	2.16 / QF40		A2096-2-QF	
2	2	RECESSED	3.80	.37	2.95 / QF50	.95	A2302-1-QF	
1	1	EXPOSED	2.85	1.27	1.18 / QF16		A2094-1-QF	
1	1	EXPOSED	2.75	1.37	2.16 / QF40		A2094-2-QF	
2	2	EXPOSED	2.75	1.37	2.95 / QF50	.95	A2301-1-QF	



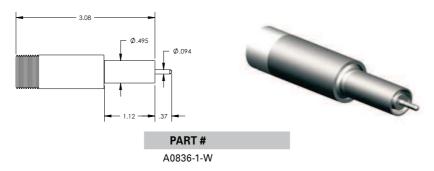




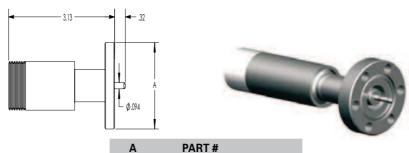
SHV-B 7500 Volts DC / 3 Amps Bakeable Connector

Air-side Connector Included

WELDABLE

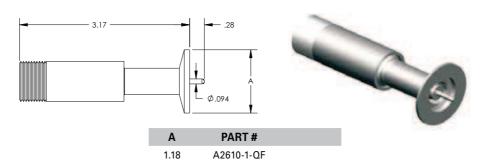


CONFLAT FLANGE



Α	PART #	
1.33	A1051-1-CF	
2.75	A1051-2-CF	

QUICK FLANGE





A2611-2-QF

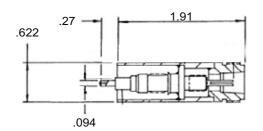
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TYPE-N

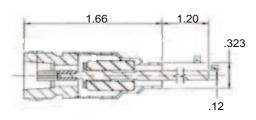
500 Volts DC / 3 Amps Air-side Connector Included

WELDABLE



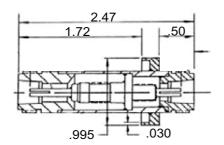


TYPE	PART #
SINGLE-ENDED	A0654-1-W





TYPE	PART #	
SINGLE-ENDED / 50 Ohms	Δ0655-1-W	





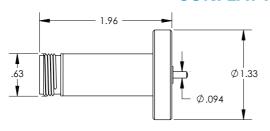
TYPE	PART #	
DOUBLE-ENDED	A0659-1-W	



TYPE-N

500 Volts DC / 3 Amps Air-side Connector Included

CONFLAT FLANGE



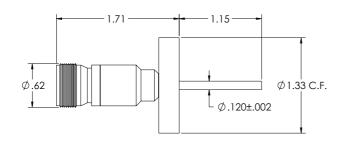


TYPE

PART#

SINGLE-ENDED

A1706-1-CF



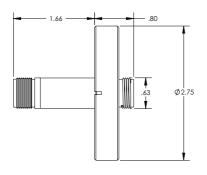


TYPE

PART#

SINGLE-ENDED / 50 Ohms

A2714-1-CF





TYPE

PART#

DOUBLE-ENDED

A2262-1-CF

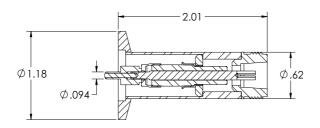
See Section 7 for connectors, wiring, and other accessories.



TYPE-N

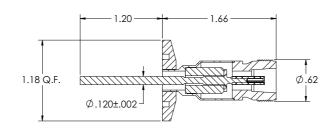
500 Volts DC / 3 Amps Air-side Connector Included

QUICK FLANGE





TYPE PART# SINGLE-ENDED A2247-1-QF





	TYPE	PART #	
	SINGLE-ENDED / 50 Ohms	A3062-1-QF	
φ2.16 — .7.	1.71		
	TVPF F	DART #	



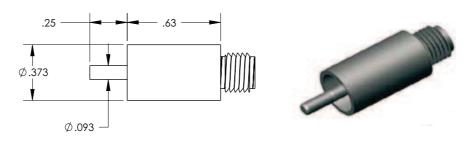
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DOUBLE-ENDED

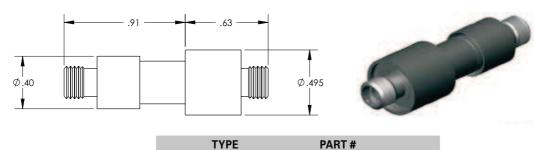
SMA

700 Volts DC / 1 Amp Air-side Connector Included

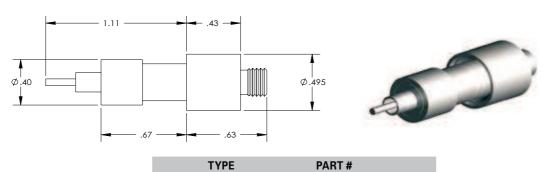
WELDABLE



PART# **TYPE** SINGLE-ENDED A0660-1-W



DOUBLE-ENDED / 50 Ohms A0645-1-W



SINGLE-ENDED / 50 Ohms A1908-1-W

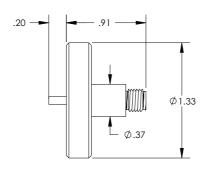




SMA

700 Volts DC / 1 Amp Air-side Connector Included

CONFLAT FLANGE



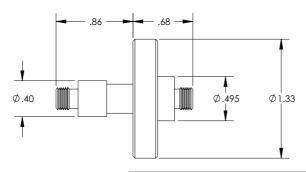


TYPE

PART#

SINGLE-ENDED

A1911-2-CF



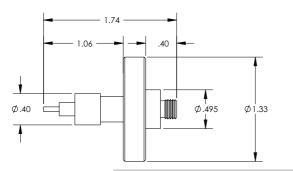


TYPE

PART#

DOUBLE-ENDED / 50 Ohms

A1835-1-CF





TYPE

PART#

SINGLE-ENDED / 50 Ohms

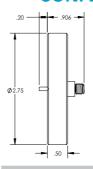
A1921-1-CF





SMA 700 Volts DC / 1 Amp Air-side Connector Included

CONFLAT FLANGE



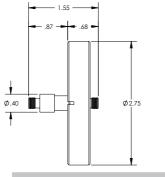


TYPE

PART#

SINGLE-ENDED

A1911-1-CF



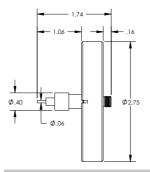


TYPE

PART#

DOUBLE-ENDED / 50 Ohms

A2286-1-CF





TYPE

PART#

SINGLE-ENDED / 50 Ohms

A1910-1-CF

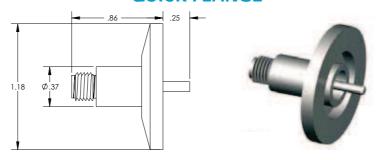




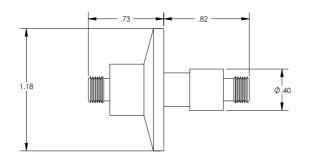
SMA

700 Volts DC / 1 Amp Air-side Connector Included

QUICK FLANGE

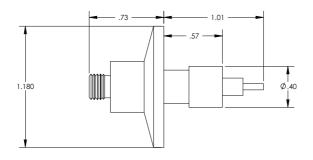


PART # **TYPE** SINGLE-ENDED A1920-1-QF





TYPE PART# DOUBLE-ENDED / 50 Ohms A2127-1-QF





TYPE PART# SINGLE-ENDED / 50 Ohms A1922-1-QF

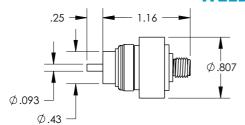
See Section 7 for connectors, wiring, and other accessories.



SMA

700 Volts DC / 1 Amp Air-side Connector Included

WELDABLE





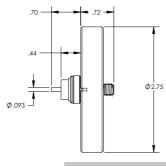
TYPE

PART#

SINGLE-ENDED

A1980-1-W

CONFLAT FLANG





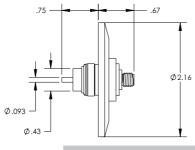
TYPE

PART#

SINGLE-ENDED

A1983-1-CF

QUICK FLANGE





TYPE

PART#

SINGLE-ENDED

A1984-1-QF



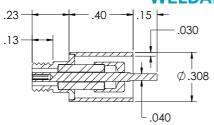


MICRODOT

500 Volts DC / 2 Amps

Air-side Connector Included

WELDABLE





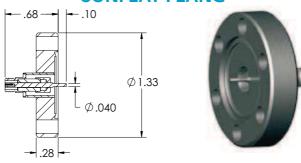
TYPE

PART#

SINGLE-ENDED

A1634-1-W

CONFLAT FLANG



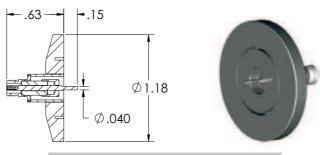
TYPE

PART#

SINGLE-ENDED

A1648-1-CF

QUICK FLANGE



TYPE

PART#

SINGLE-ENDED

A1649-1-QF





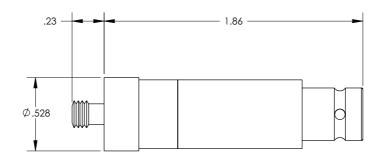


500 Volts DC / 2 Amps

Air-side Connector Included

BNC to Microdot / Crystal Sensor Feedthrough WELDABLE





TYPE	PART#	
SINGLE-ENDED	A0975-1-W	



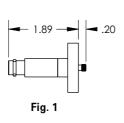


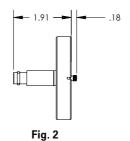


500 Volts DC / 2 Amps

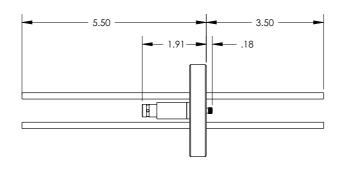
Air-side Connector Included

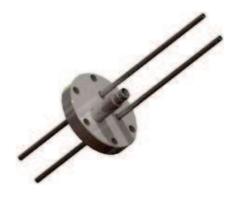
BNC to Microdot / Crystal Sensor Feedthrough CONFLAT FLANGE





PART #	FIG	COAX	COOLING LINES	FLANGE	
A2554-1-CF	1	1		1.33 CF	
A2750-1-CF	2	1		2.75 CF	





PART #	COAX	COOLING LINES	FLANGE	
A2728-1-CF	1	2	2.75 CF	





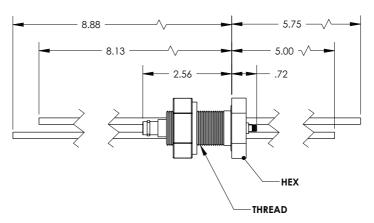


500 Volts DC / 2 Amps

Air-side Connector Included

BNC to Microdot / Crystal Sensor Feedthrough BASEPLATE





PART #	COAX	COOLING LINES	MOUNT	
A7164-1-BP	1	2	1" BP	



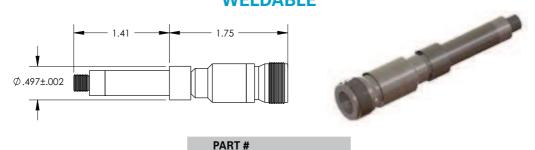


500 Volts DC / 1 Amp

Air-side Connector Included

Type N to SMA

WELDABLE



A3888-1-W

CONFLAT FLANGE

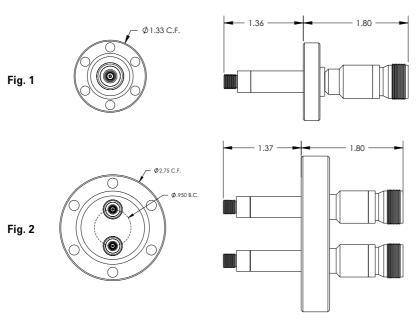




FIG	FLANGE	PART #	
1	1.33 CF	A8223-1-CF	
2	2.75 CF	A3892-1-CF	



500 Volts DC / 1 Amp

Air-side Connector Included

Type N to SMA QUICK FLANGE

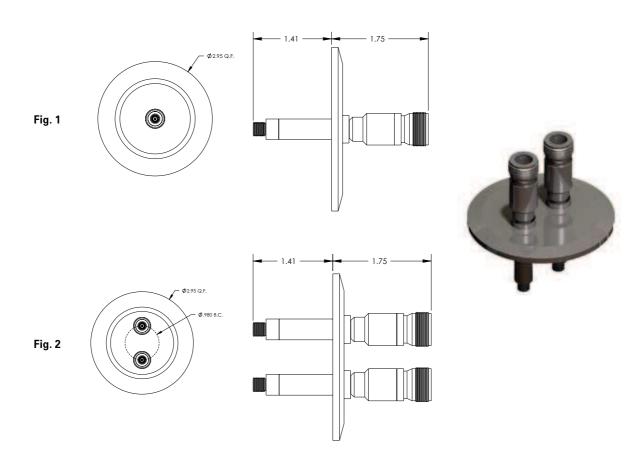


FIG	FLANGE	PART #	
1	QF 50	A8224-1-QF	
2	QF 50	A8224-2-QF	

