

ONLINE CATALOG

SSMC Series

Microminiature

Coaxial Connectors

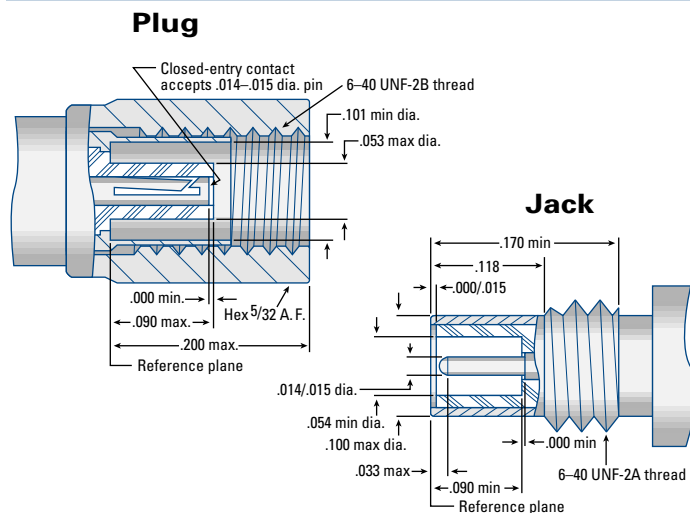
Revised 9/05

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Bulkhead mounted receptacles	4
P.C. board receptacles	5
Panel mounted receptacles	9
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SSMC Interface Dimensions



*These specifications change periodically with updates to MIL-PRF-39012 requirements. Contact factory for latest specifications.

Specifications (MIL-PRF-39012 as applicable)

Materials:

Jack mating ends, center contacts: Beryllium copper per ASTM-B-196, Condition HT.
Crimp sleeves: Seamless copper tube per ASTM-B-75, type C12000, temper: light anneal 050.
Other metal parts: Brass per ASTM-B-16, Alloy 360, 1/2 hard.
Insulators: Teflon (TFE) per ASTM-D-1710.

Finish:

Center contacts: Gold plated per current revision of MIL-PRF-39012*
Other metal parts: Gold plated to meet current MIL-PRF-39012 corrosion requirements.*

Electrical:

Impedance: 50Ω. **Frequency range:** DC-12.4 GHz.
Voltage Rating: 250VRMS @ sea level; 60 VRMS @ 70,000 ft.
Insulation Resistance: 1,000 megohms minimum.
Contact Resistance:
Center contact: Initial: 4.0 milliohms maximum;
after environmental test conditions: 6.0 milliohms maximum.
Outer contact: Initial: 1.0 milliohms maximum;
after environmental test conditions: 1.5 milliohms maximum.
Cable braid to body: Initial: 1.0 milliohms maximum; after environmental test conditions: N/A.
Corona level: 125V @70,000 ft. **RF highpot:** 400 VRMS @ 5 MHz.
RF leakage: -50 dB min @ 2-3 GHz. **Insertion loss:** .30 dB max @ 1.5 GHz.
VSWR:

Cable	Straight connector	Right angle connector
RG-178	1.20 + (.020 x F[GHz])	1.20 + (.030 x F[GHz])
RG-316	1.25 + (.020 x F[GHz])	1.25 + (.030 x F[GHz])
.085" semi-rigid	1.20 + (.015 x F[GHz])	1.20 + (.025 x F[GHz])

Mechanical:

Force to engage: 16 inch-ounces torque max.
Mating torque: 28-32 inch-ounces.
Coupling nut pull-off resistance: 25 pounds min.
Contact retention: 2 pounds min axial force.
Durability: 500 mating cycles.

Environmental (MIL-STD-202):

Temperature range: -65° C to +165° C. **Corrosion:** Method 101, condition B, 5% salt solution.
Vibration (Method 204): Condition D (20G).
Mechanical shock (Method 213): Condition B, 75G @ 6 ms @ 1/2 sine.



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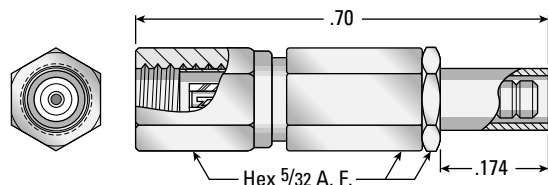
(203) 776-2813 • FAX (203) 776-8294

www.aep.us • e-mail: aepsales@aep.us

SSMC Cable Connectors

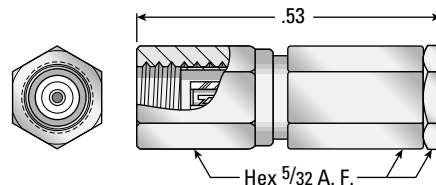
Straight Cable Plugs

Crimp type for flexible cable



AEP P/N
7002-1572-0XX*

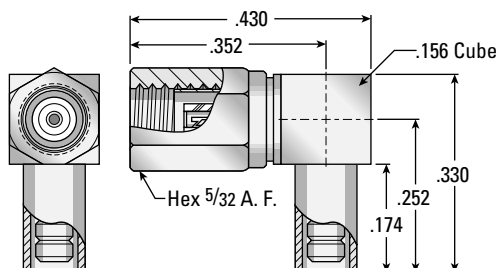
Solder type for semi-rigid cable



AEP P/N
7002-1542-0XX*

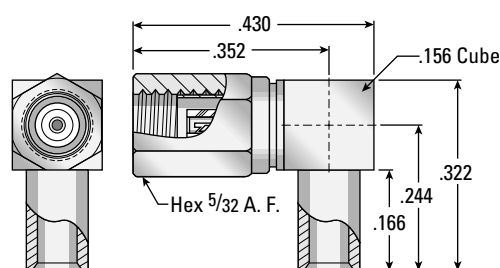
Right Angle Cable Plugs

Crimp type for flexible cable



AEP P/N
7105-1521-0XX*

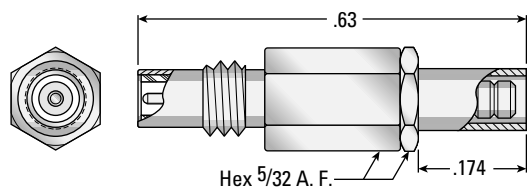
Solder type for semi-rigid cable



AEP P/N
7105-1561-0XX*

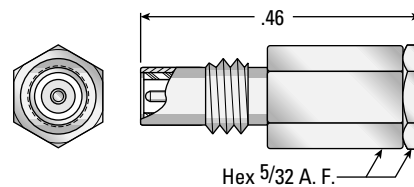
Straight Cable Jacks

Crimp type for flexible cable



AEP P/N
7101-1571-0XX*

Solder type for semi-rigid cable



AEP P/N
7101-1541-0XX*

***Substitute the appropriate cable group number for "XX" when ordering:**

GROUP	CABLE TYPES	GROUP	CABLE TYPES	GROUP	CABLE TYPES
02	RG178, RG196, M17/93, M17/169	05	RG178DS, RG196DS	19	RG174DS, RG316DS, M17/151, M17/152, Times RD-316
03	RG174, RG179, RG316, M17/113, M17/119, M17/172, M17/189	10	.085" semi-rigid, RG405, M17/133	21	.056" semi-rigid
		11	.047" semi-rigid, M17/151		

Cable assembly instructions are shipped with each connector.



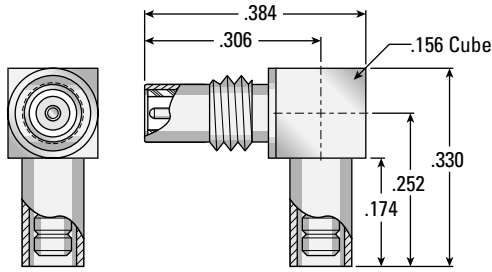
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SSMC Cable Connectors

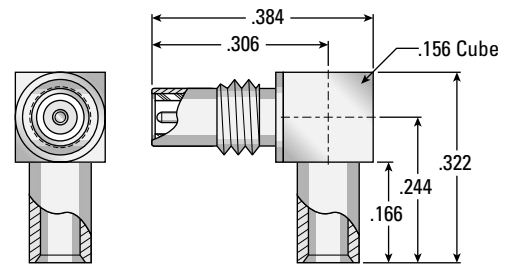
Right Angle Cable Jacks

Crimp type for flexible cable



AEP P/N
7141-1521-0XX*

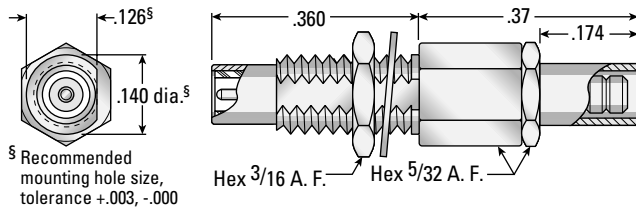
Solder type for semi-rigid cable



AEP P/N
7141-1561-0XX*

Straight Bulkhead Mounted Cable Jacks (.093" max panel thickness)

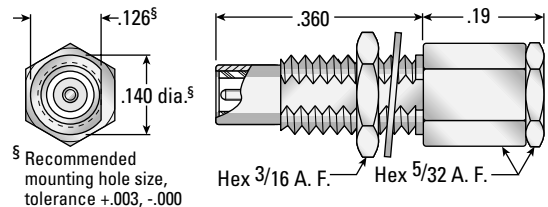
Crimp type for flexible cable



§ Recommended mounting hole size, tolerance +.003, -.000

AEP P/N
7003-1572-0XX*

Solder type for semi-rigid cable

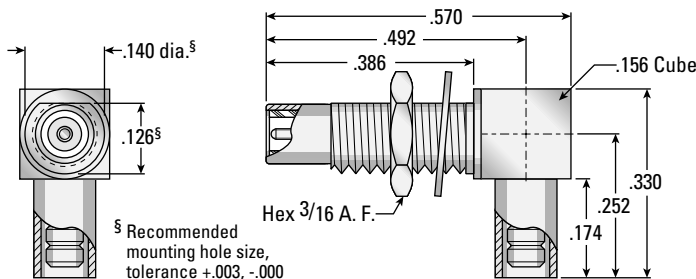


§ Recommended mounting hole size, tolerance +.003, -.000

AEP P/N
7003-1542-0XX*

Right Angle Bulkhead Mounted Cable Jacks (.125" max panel thickness)

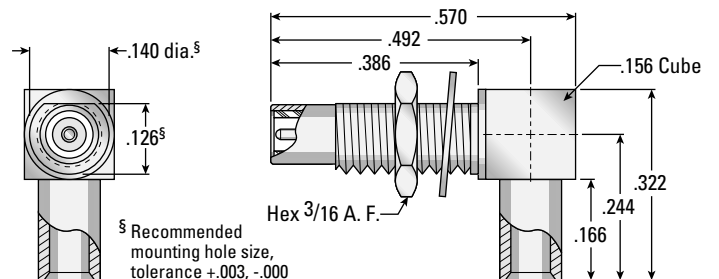
Crimp type for flexible cable



§ Recommended mounting hole size, tolerance +.003, -.000

AEP P/N
7106-1521-0XX*

Solder type for semi-rigid cable



§ Recommended mounting hole size, tolerance +.003, -.000

AEP P/N
7106-1561-0XX*

*Substitute the appropriate cable group number for "XX" when ordering:

GROUP	CABLE TYPES	GROUP	CABLE TYPES	GROUP	CABLE TYPES
02	RG178, RG196, M17/93, M17/169	05	RG178DS, RG196DS	19	RG174DS, RG316DS, M17/151, M17/152, Times RD-316
03	RG174, RG179, RG316, M17/113, M17/119, M17/172, M17/189	10	.085" semi-rigid, RG405, M17/133	21	.056" semi-rigid
		11	.047" semi-rigid, M17/151		

Cable assembly instructions are shipped with each connector.



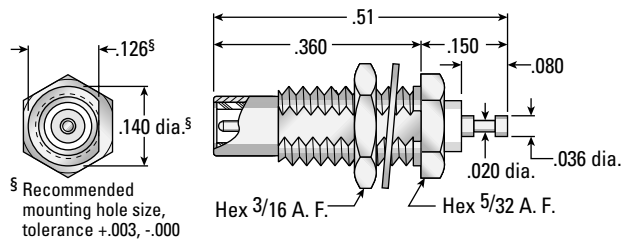
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SSMC Bulkhead Mounted Receptacles

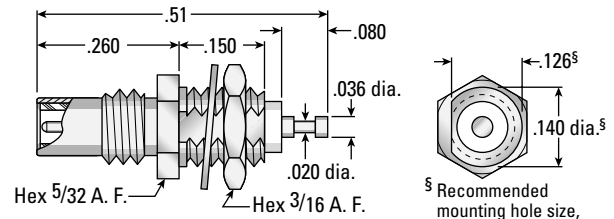
Straight Bulkhead Jack Receptacles (.093" max panel thickness)

Rear mount



AEP P/N
7004-1512-000

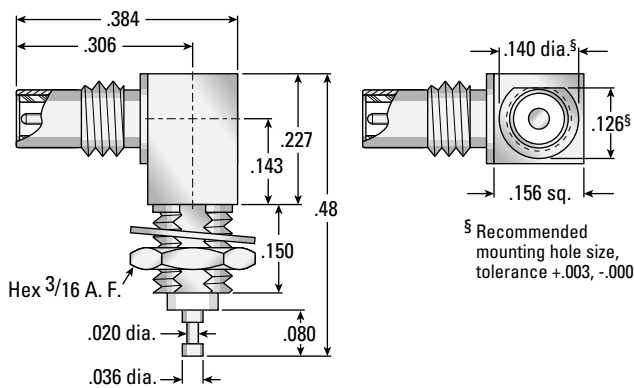
Front mount



AEP P/N
7119-1512-000

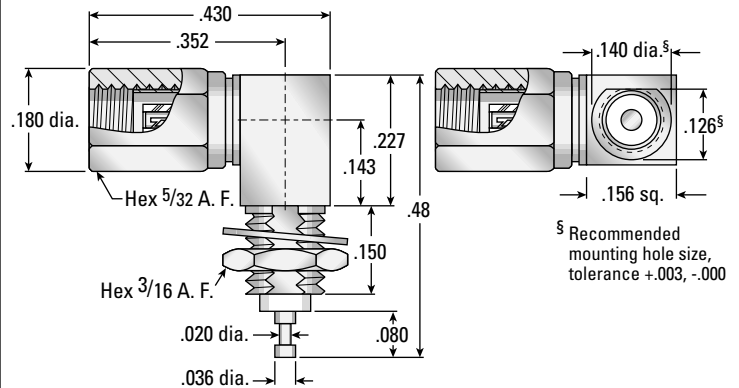
Right Angle Bulkhead Receptacles (.093" max panel thickness)

Jack type



AEP P/N
7012-1511-000

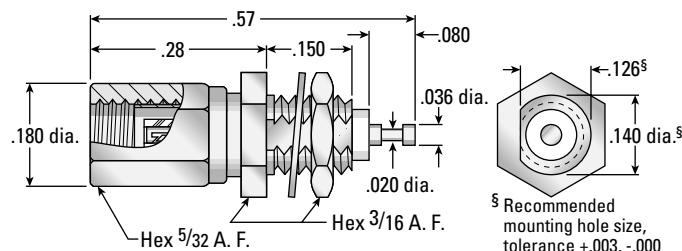
Plug type



AEP P/N
7040-1511-000

Straight Bulkhead Plug Receptacle

Front mount (.093"max panel thickness)

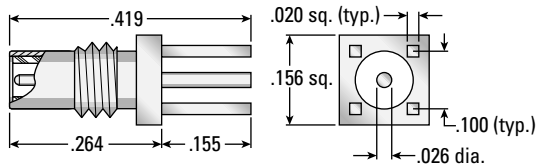


AEP P/N
7017-1512-000

SSMC P.C. Board Receptacles

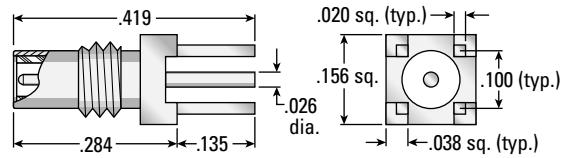
Straight P.C. Board Receptacles

Standard legs



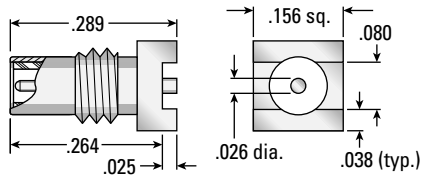
LEG FINISH	AEP P/N	LEG FINISH	AEP P/N
GOLD	7009-1511-000	PRETINNED	7009-1511-040

Standoff legs



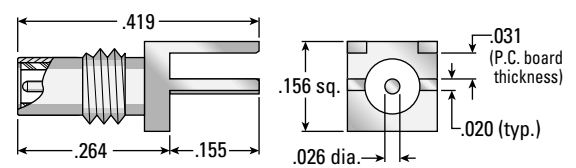
LEG FINISH	AEP P/N	LEG FINISH	AEP P/N
GOLD	7009-1511-050	PRETINNED	7009-1511-041

Surface mount



LEG FINISH	AEP P/N
GOLD	7009-1511-004

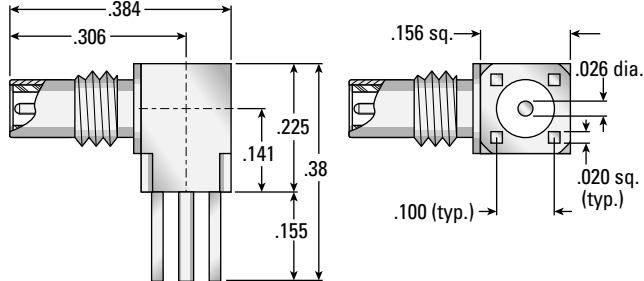
Edge mount



LEG FINISH	AEP P/N	LEG FINISH	AEP P/N
GOLD	7009-1511-005	PRETINNED	7009-1511-061

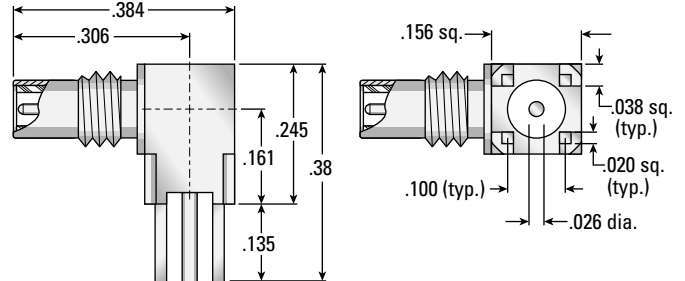
Right Angle P.C. Board Receptacles

Standard legs



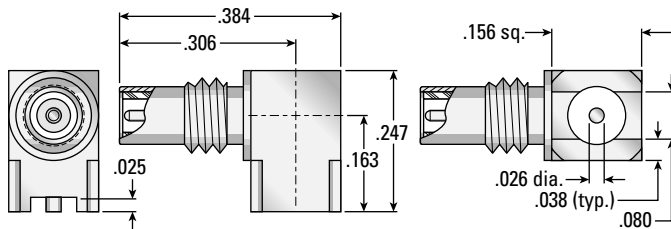
LEG FINISH	AEP P/N	LEG FINISH	AEP P/N
GOLD	7010-1511-000	PRETINNED	7010-1511-040

Standoff legs



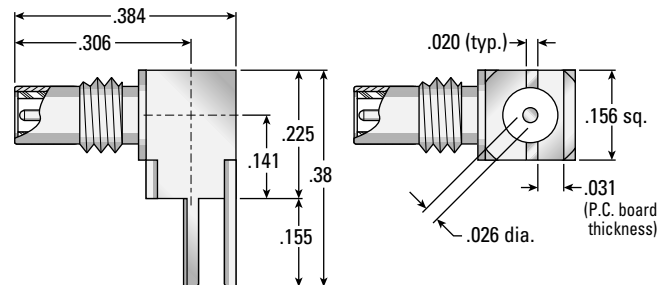
LEG FINISH	AEP P/N	LEG FINISH	AEP P/N
GOLD	7010-1511-050	PRETINNED	7010-1511-041

Surface mount



LEG FINISH	AEP P/N
GOLD	7010-1511-015

Edge mount



LEG FINISH	AEP P/N	LEG FINISH	AEP P/N
GOLD	7010-1511-060	PRETINNED	7010-1511-061



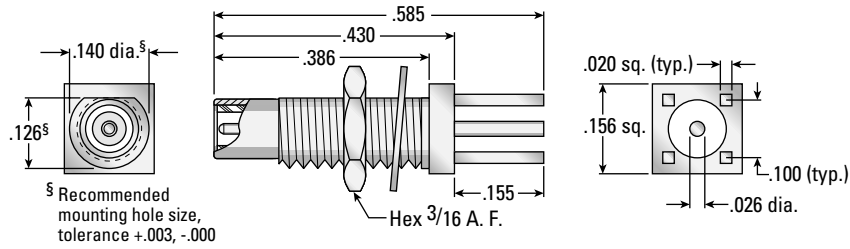
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SSMC P.C. Board Receptacles

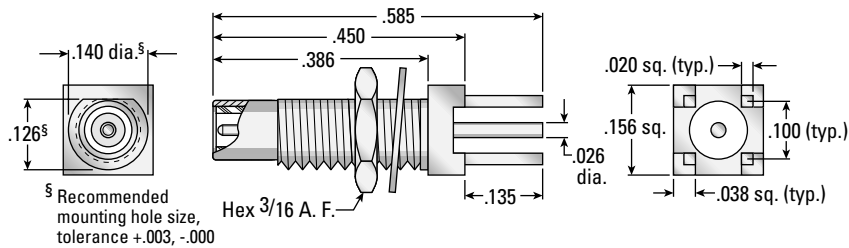
Straight Bulkhead Mounted P.C. Board Receptacles (.125" max panel thickness)

Standard legs



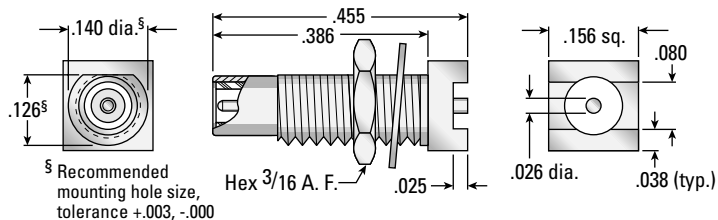
LEG FINISH	AEP P/N
GOLD	7029-1511-000
PRETINNED	7029-1511-012

Standoff legs



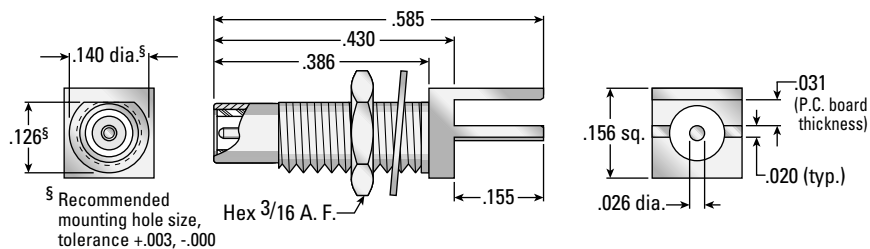
LEG FINISH	AEP P/N
GOLD	7029-1511-050
PRETINNED	7029-1511-040

Surface mount



LEG FINISH	AEP P/N
GOLD	7029-1511-015

Edge mount



LEG FINISH	AEP P/N
GOLD	7029-1511-060
PRETINNED	7029-1511-061



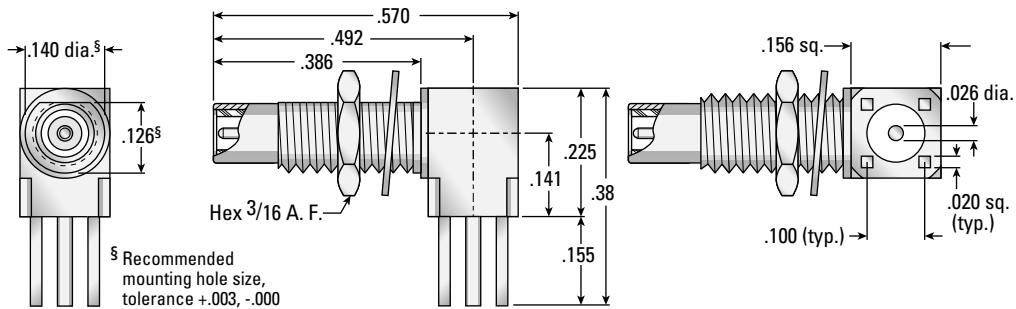
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SSMC P.C. Board Receptacles

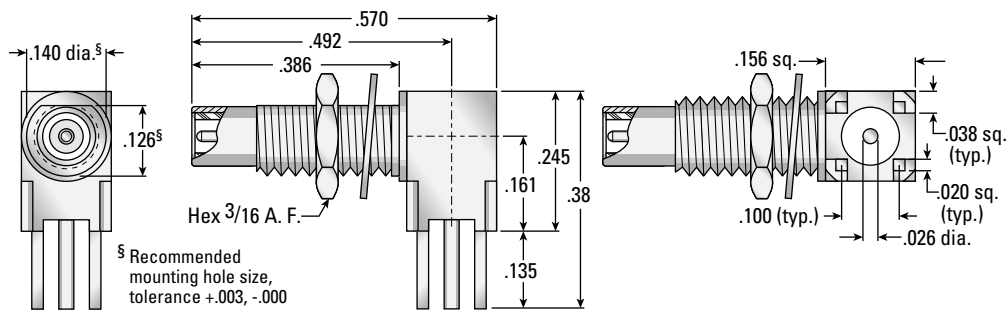
Right Angle Bulkhead Mounted P.C. Board Receptacles (.125" max panel thickness)

Standard legs



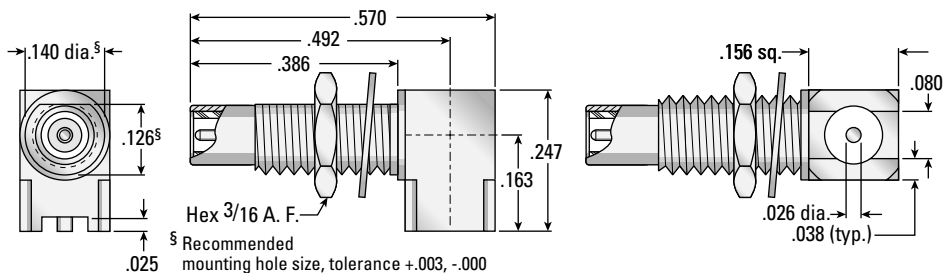
LEG FINISH	AEP P/N
GOLD	7110-1511-000
PRETINNED	7110-1511-012

Standoff legs



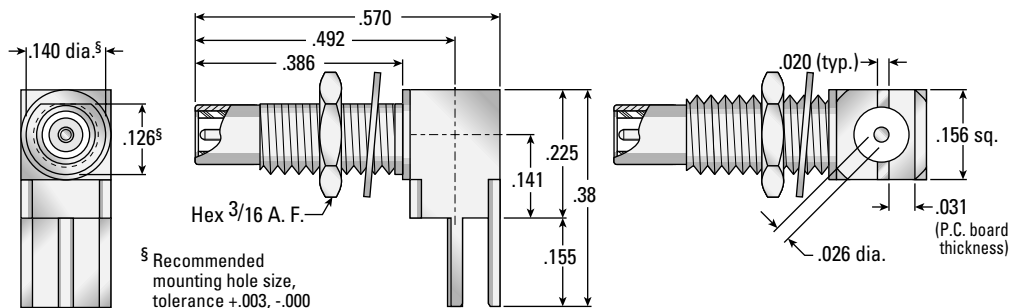
LEG FINISH	AEP P/N
GOLD	7110-1511-050
PRETINNED	7110-1511-040

Surface mount



LEG FINISH	AEP P/N
GOLD	7110-1511-015

Edge mount



LEG FINISH	AEP P/N
GOLD	7110-1511-060
PRETINNED	7110-1511-061



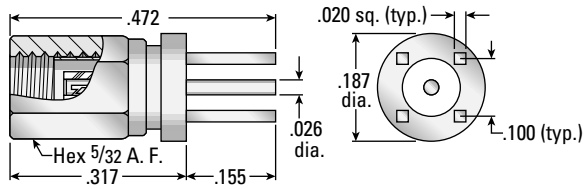
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SSMC P.C. Board Receptacles

Straight Plug Type P.C. Board Receptacles

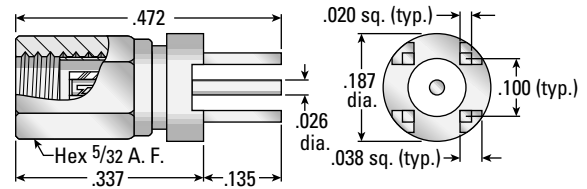
Standard legs



LEG FINISH	AEP P/N
GOLD	7025-1512-000

LEG FINISH	AEP P/N
PRETINNED	7025-1512-012

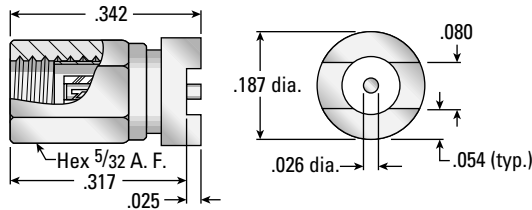
Standoff legs



LEG FINISH	AEP P/N
GOLD	7025-1512-050

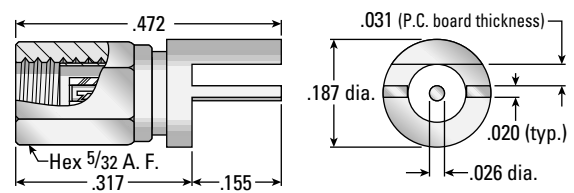
LEG FINISH	AEP P/N
PRETINNED	7025-1512-040

Surface mount



LEG FINISH	AEP P/N
GOLD	7025-1512-015

Edge mount

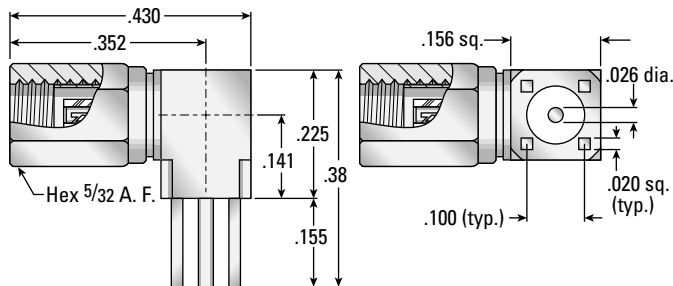


LEG FINISH	AEP P/N
GOLD	7025-1512-060

LEG FINISH	AEP P/N
PRETINNED	7025-1512-061

Right Angle Plug Type P.C. Board Receptacles

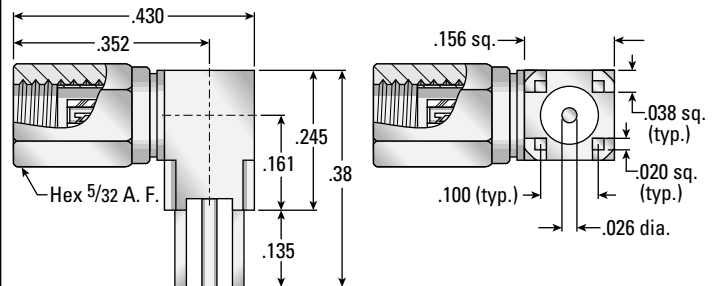
Standard legs



LEG FINISH	AEP P/N
GOLD	7042-1511-000

LEG FINISH	AEP P/N
PRETINNED	7042-1511-012

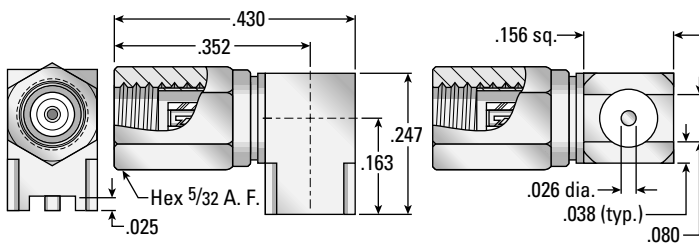
Standoff legs



LEG FINISH	AEP P/N
GOLD	7042-1511-050

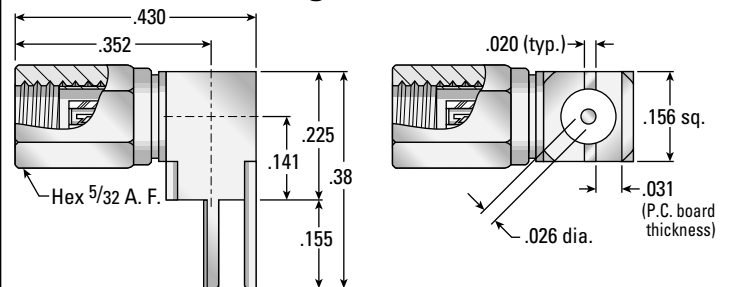
LEG FINISH	AEP P/N
PRETINNED	7042-1511-040

Surface mount



LEG FINISH	AEP P/N
GOLD	7042-1511-015

Edge mount



LEG FINISH	AEP P/N
GOLD	7042-1511-060

LEG FINISH	AEP P/N
PRETINNED	7042-1511-061



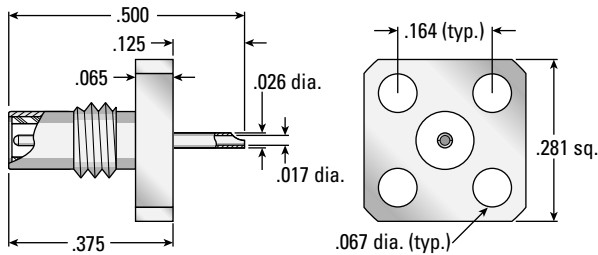
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SSMC Receptacles and Adapters

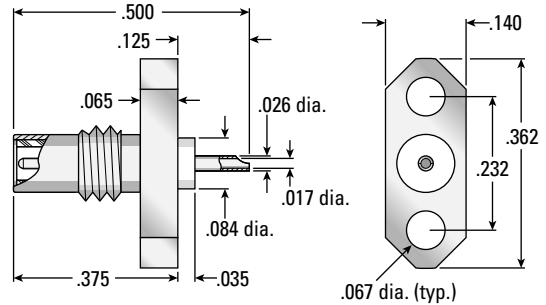
Straight Panel Jack Receptacle (Stainless steel bodies)

4-hole flange



AEP P/N
7198-1513-000

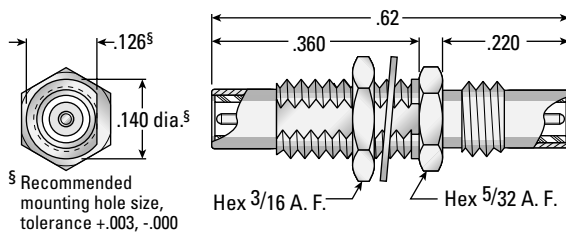
2-hole flange



AEP P/N
7100-1513-000

Bulkhead Mounted Adapters

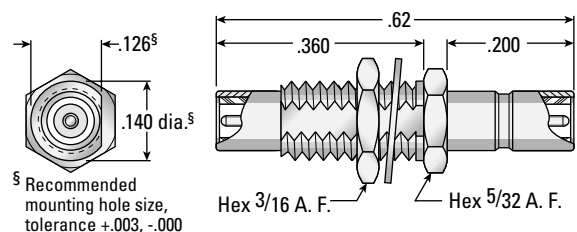
SSMC jack to SSMC jack



[§] Recommended mounting hole size, tolerance +.003, -.000

AEP P/N
7122-1502-000

SSMC jack to SSMB jack

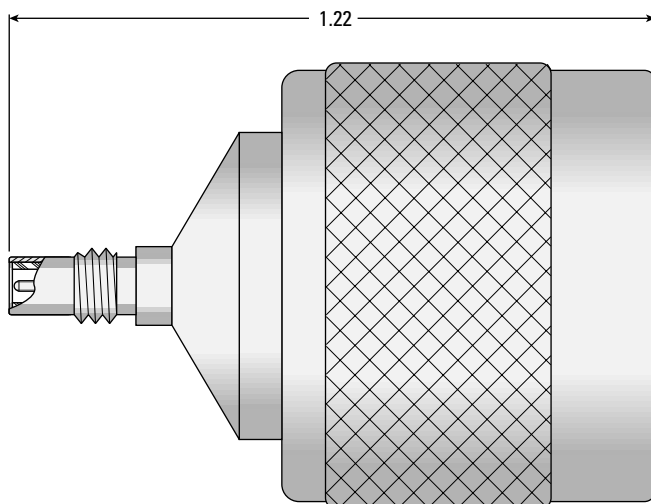


[§] Recommended mounting hole size, tolerance +.003, -.000

AEP P/N
7022-1502-000

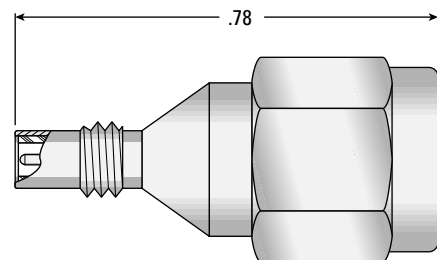
Adapters Between Series

N plug to SSMC jack



AEP P/N
5013-1503-000

SMA plug to SSMC jack



AEP P/N
5938-1503-000



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