

smiths connectors

# NON-FILTERED D-SUB CONNECTORS

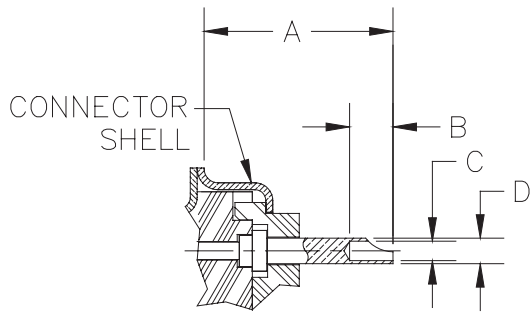


**NON-FILTERED D-SUB CONNECTORS**

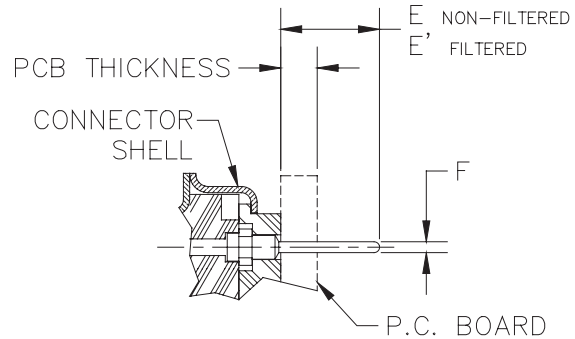
Smiths Connectors provides high performance D-Subminiature connectors for space applications. These connectors meet requirements for outgassing, toxicity, flammability and environmental concerns such as vibration and high/low differential temperature extremes, suitable for use in space and military/aerospace applications. Smiths Connectors D-Subminiature connectors are qualified by NASA. These connectors meet the performance and dimensional requirements of MIL-C-24308. We offer non-magnetic, outgassed and nickel plated connector assemblies.



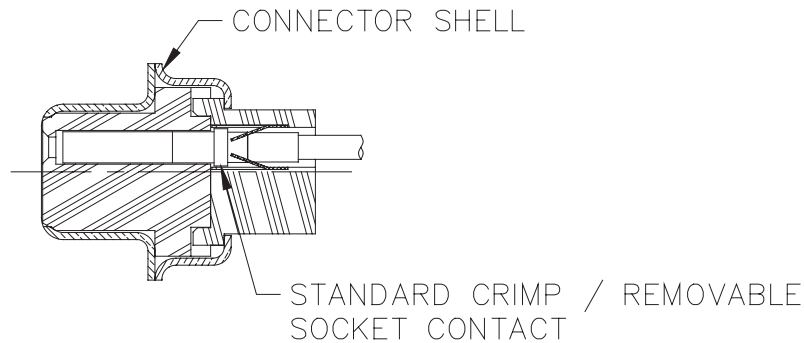
► **SOLDER CUP**



► **PC TAIL**

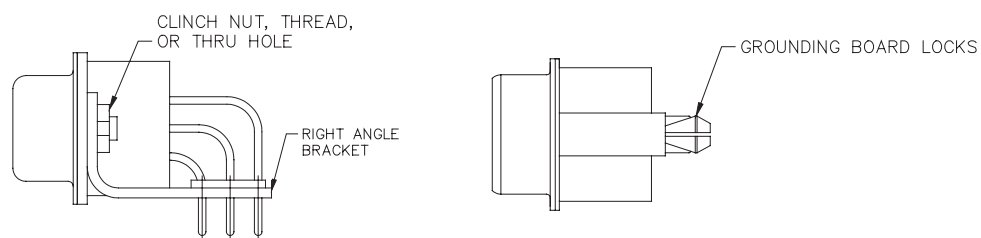


► **CRIMP REMOVABLE**



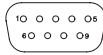
CONTACT SIZE	A <sup>MAX</sup>		B	C <sup>MIN</sup>	D	E NON-FILTERED		E <sup>±.015</sup> FILTERED	F <sup>±.003</sup>
	PLUG	RECEPTACLE				PCB THK = (.094)	PCB THK = (.125)		
22	.442	.390	.110 / .093	Ø.0345	Ø.049 / .047	.185 / .130	.320 / .275	.200	Ø.020
20				Ø.042	Ø.061 / .057				

► **OPTIONAL HARDWARE**



## PLUG INSERT ARRANGEMENTS

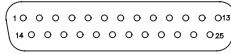
### Standard Density Pin Contact Size #20



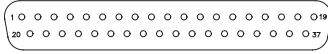
SHELL SIZE 1  
ARRANGEMENT 9



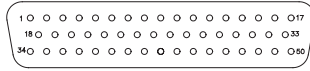
SHELL SIZE 2  
ARRANGEMENT 15



SHELL SIZE 3  
ARRANGEMENT 25

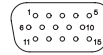


SHELL SIZE 4  
ARRANGEMENT 37

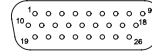


SHELL SIZE 5  
ARRANGEMENT 50

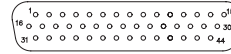
### High Density Pin Contact Size #22



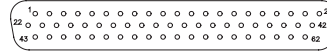
SHELL SIZE 1  
ARRANGEMENT 15HD



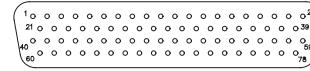
SHELL SIZE 2  
ARRANGEMENT 26



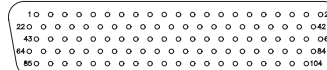
SHELL SIZE 3  
ARRANGEMENT 44



SHELL SIZE 4  
ARRANGEMENT 62



SHELL SIZE 5  
ARRANGEMENT 78



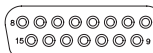
SHELL SIZE 6  
ARRANGEMENT 104

## RECEPTACLE INSERT ARRANGEMENTS

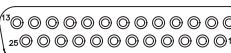
### Standard Density Socket Contact Size #20



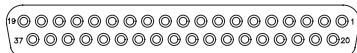
SHELL SIZE 1  
ARRANGEMENT 9



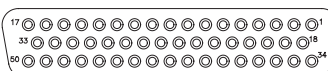
SHELL SIZE 2  
ARRANGEMENT 15



SHELL SIZE 3  
ARRANGEMENT 25



SHELL SIZE 4  
ARRANGEMENT 37

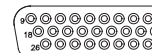


SHELL SIZE 5  
ARRANGEMENT 50

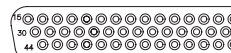
### High Density Socket Contact Size #22



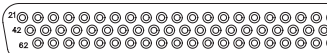
SHELL SIZE 1  
ARRANGEMENT 15HD



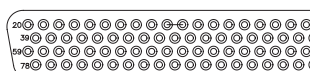
SHELL SIZE 2  
ARRANGEMENT 26



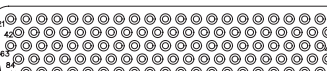
SHELL SIZE 3  
ARRANGEMENT 44



SHELL SIZE 4  
ARRANGEMENT 62



SHELL SIZE 5  
ARRANGEMENT 78



SHELL SIZE 6  
ARRANGEMENT 104

▶ FILTERED AND NON FILTERED D-SUB SPECIFICATIONS

SHELL FRONT	Brass per ASTM-B36-C26800 Electroless nickel per MIL-C_26704, Class 2, Grade B
SHELL REAR	<b>Non-Filter:</b> Brass per ASTM-B36-C26800 Electroless nickel per MIL-C_26704, Class 2, Grade B <b>Filter:</b> Aluminum 6061-T6 Electroless nickel per MIL-C_26704, Class 2, Grade B
CONTACTS	BE CU per ASTM-B196/B196M OR Brass UNS C36000 per ASTM-B16 Gold plate per ASTM-B488 Type 3, Grade C
INSULATORS	High grade thermoplastic
FILTER ARRAY	Ceramic

## HOW TO ORDER



**1** ▶ FILTER TYPE  
See tables pages 3-5  
NF for Non-Filtered Connectors

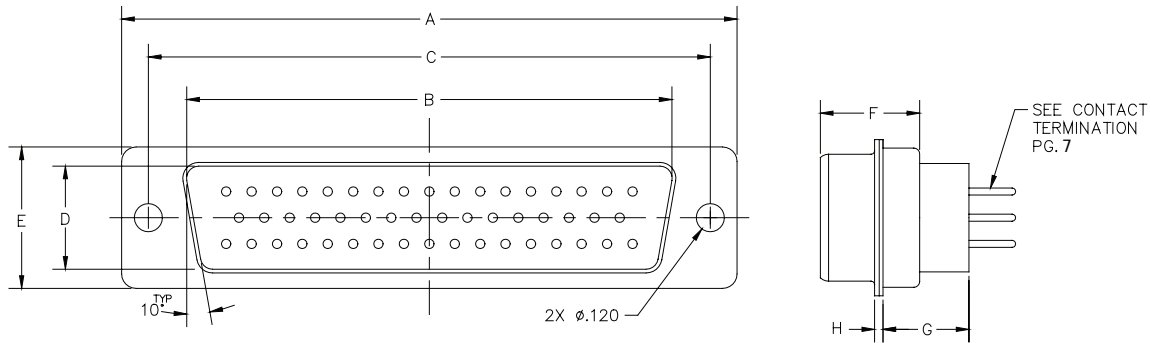
**2** ▶ PREFIX  
MIL-DTL-24308

**3** ▶ CONTACT ARRANGEMENT  
9, 15, 25, 37, 50,  
15HD, 26, 44, 62, 78,  
104  
PAGE 8

**4** ▶ CONTACT TYPE  
**P** PIN    **S** SOCKET

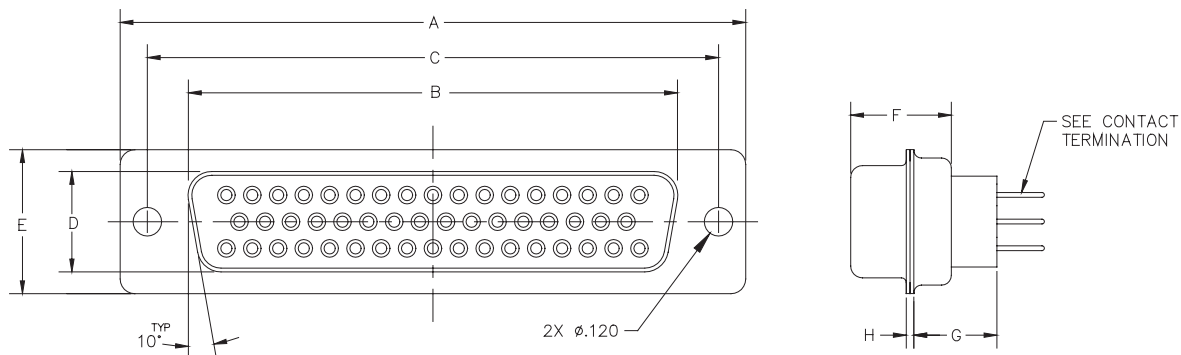
**5** ▶ CONTACT TERMINATION  
**S** SOLDER    **P** PC TAIL    **C** CRIMP    **R** RIGHT ANGLE

## ▶ NON FILTERED STRAIGHT D-SUB PLUG



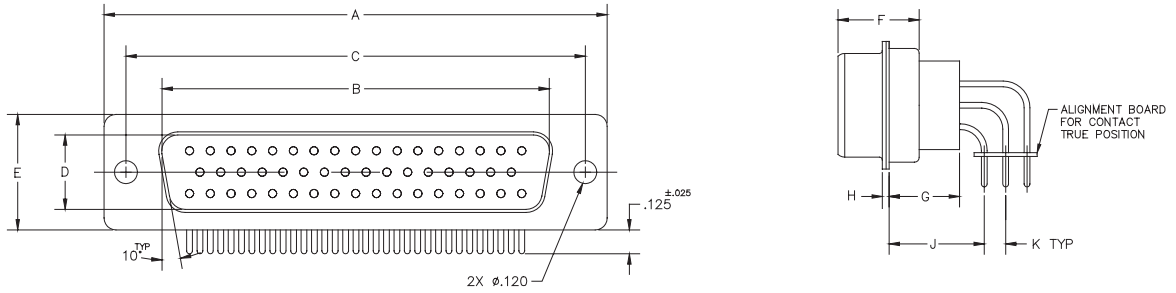
SHELL SIZE	STANDARD DENSITY LAYOUT #20 PIN	HIGH DENSITY LAYOUT #22 PIN	A ±.015	B ±.005	C BASIC	D ±.005	E ±.015	F ±.010	G <sup>MAX</sup>			H ±.010
									STANDARD DENSITY		HIGH DENSITY	
									PC TAIL & SOLDER CUP	CRIMP	ALL	
1	9	15	1.213	.666	.984	.329	.494	.422	.251	.365	.375	.039
2	15	26	1.541	.994	1.312							
3	25	44	2.088	1.534	1.852							
4	37	62	2.729	2.182	2.500	.441	.605	.426	—	—		
5	50	78	2.635	2.079	2.406							
6	—	104	2.729	2.212	2.500	.503	.668	—	—	—		

## ▶ NON FILTERED STRAIGHT D-SUB RECEPTACLE



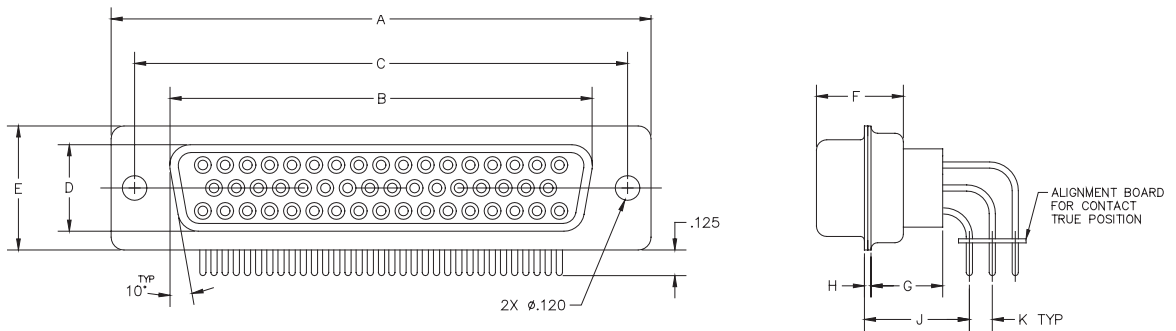
SHELL SIZE	STANDARD DENSITY LAYOUT #20 PIN	HIGH DENSITY LAYOUT #22 PIN	A ±.015	B ±.005	C BASIC	D ±.005	E ±.015	F ±.010	G <sup>MAX</sup>			H ±.010
									STANDARD DENSITY		HIGH DENSITY	
									PC TAIL & SOLDER CUP	CRIMP	ALL	
1	9	15	1.213	.643	.984	.310	.494	.429	.251	.365	.375	.039
2	15	26	1.541	.971	1.312							
3	25	44	2.088	1.511	1.852							
4	37	62	2.729	2.158	2.500	.423	.605	—	—	—		
5	50	78	2.635	2.064	2.406							
6	—	104	2.729	2.189	2.500	.485	.668	—	—	—		

▶ NON FILTERED RIGHT ANGLE D-SUB PLUG



SHELL SIZE	STANDARD DENSITY LAYOUT #20 SKT	HIGH DENSITY LAYOUT #22 SKT	A ±.015	B ±.005	C BASIC	D ±.005	E ±.015	F ±.010	G <sup>MAX</sup>		H ±.010	J ±.010		K ±.015	
									STANDARD DENSITY	HIGH DENSITY		STANDARD DENSITY	HIGH DENSITY	STANDARD DENSITY	HIGH DENSITY
1	9	15	1.213	.666	.984	.329	.494	.426	.251	.375	.030	.283	.450	.112	.082
2	15	26	1.541	.994	1.312										
3	25	44	2.088	1.534	1.852										
4	37	62	2.729	2.182	2.500	.442	.605	.039	—	—	—	—	—	—	
5	50	78	2.635	2.079	2.406										
6	—	104	2.729	2.212	2.500	.503	.668	—	—	—	—	—	—	—	

▶ NON FILTERED RIGHT ANGLE D-SUB RECEPTACLE



SHELL SIZE	STANDARD DENSITY LAYOUT #20 SKT	HIGH DENSITY LAYOUT #22 SKT	A ±.015	B ±.005	C BASIC	D ±.005	E ±.015	F ±.010	G <sup>MAX</sup>		H ±.010	J ±.010		K ±.015	
									STANDARD DENSITY	HIGH DENSITY		STANDARD DENSITY	HIGH DENSITY	STANDARD DENSITY	HIGH DENSITY
1	9	15	1.213	.643	.984	.310	.494	.429	.251	.375	.030	.283	.450	.112	.082
2	15	26	1.541	.971	1.312										
3	25	44	2.088	1.511	1.852										
4	37	62	2.729	2.158	2.500	.423	.605	.039	—	—	—	—	—	—	
5	50	78	2.635	2.064	2.406										
6	—	104	2.729	2.189	2.500	.485	.668	—	—	—	—	—	—	—	

# SMITHS CONNECTORS GLOBAL SUPPORT

## AMERICAS

Hudson, MA  
Costa Mesa, CA  
Kansas City, KS

1.978.568.0451  
1.714.371.1100  
1.913.342.5544

info@hypertronics.com  
customerservice@sabritec.com  
info@idinet.com

## EUROPE

France  
Germany  
Italy  
United Kingdom

33.2.32969176  
49.991.250120  
39.010.60361  
44.208.236.2400

info@hypertac.fr  
info@hypertac.de  
info@hypertac.it  
info@hypertac.co.uk

## ASIA

Shanghai, China  
Singapore  
Suzhou, China

65.6846.1655  
65.6846.1655  
65.6846.1655

asiacrs@smithsconnectors.com  
asiacrs@smithsconnectors.com  
asiacrs@smithsconnectors.com

FOR MORE INFORMATION | [smithsconnectors.com](http://smithsconnectors.com) |    

Copyright 2014 Smiths Connectors | All rights reserved