

MIL-C-38999
Series I, II, III



MIL-C-38999 Series I

These general purpose connectors are used for high-density applications. They are available in shell sizes 9 through 25 with up to 128 contacts of size 22 and mixed contact arrangements. The MIL-C-38999 family is offered in a variety of receptacle mounting configurations. These include square flange receptacles for wall and box mounting and jam nut receptacles. Series I connectors are available in a broad range of shell materials and finishes. Aluminum shells have finishes of bright cadmium, olive drab cadmium or electroless nickel. Olive drab cadmium finish is applied over a nickel under plate to create salt spray exposure durability. These connectors can mate with non-filtered connectors and are drop-in replacements for non-filtered connectors. Non-standard filter connector body sizes and shapes are available.

MIL-C-38999 Series II

These connectors are designed to be used mainly where the major requirements are low profile and light weight. Series II achieves up to 20% reduction in the mated length and 39% in the external diameter. The connector weight is reduced by approximately 40% compared to Series I. Thinner shell walls are used to meet customer requirements for reduction both in dimensions and in weight. These connectors are offered with 22, 20, 16 and 12 size contacts, and shell sizes of 8 to 24. Receptacle mounting options include square flanges for wall and box mounting and a jam nut mount. Series II connectors are available in a broad range of shell materials and finishes: Aluminum shells are finished with bright cadmium, olive drab cadmium or electroless nickel. Olive drab cadmium finish is applied over a nickel under plate to create salt spray exposure durability. These connectors can mate with non-filtered connectors and are drop-in replacements for non-filtered connectors. Non-standard filter connector body sizes and shapes and insert arrangements are available.

MIL-C-38999 Series III

Series III provides an improved threaded connector with quick disconnect feature of a bayonet connector. In addition, Series III is designed to withstand extreme environmental conditions of vibration, shock, fluid, sand dust and salt, encountered mainly in modern aircraft wheel wells, engine compartments and wing tips. Series III connectors also include a ratcheting self-locking device which eliminates the need for safety wiring. These connectors are offered with 22, 20, 16 and 12 size contacts, and shell sizes of 9 through 25. Pin count up to 128 pins. These connectors are offered in square flange and jam nut mount receptacles. Series III connectors are available in a broad range of shell materials and finishes. Aluminum shells have finishes of olive drab, cadmium or electroless nickel. Stainless steel shells are passivated and nickel deposit finished. Zinc cobalt finishes are also available. We can offer filtered solutions for MIL-C-38999 III connectors that include fiber optics, coax and twinax contacts. These connectors can mate with non-filtered connectors and are drop-in replacements for non-filtered connectors. Non-standard filter connector body sizes and shapes and insert arrangements are available.

Material & Finish

Shell - Aluminum alloy, olive drab cadmium plating.
 Aluminum alloy, electroless nickel plating.
 Stainless steel, passivated.
 Aluminum alloy, zinc cobalt plating.

Contacts termination - PCB Tail, gold-plating
 PCB Tail, tin-plating
 Solder cup, tin-plating

Contacts - Copper alloy, gold plate.

Grommet & O-ring - Silicon-based elastomer.

Insert - High grade Thermoplastic / Thermose / Epoxy

Content of Section

How To Order	Page 4	Shell types of MIL-C-38999 Series I	Pages 8-9
Insert arrangements	Page 5	MIL-C-38999 Series II Key Position	Pages 10
Termination types	Page 6	Shell types of MIL-C-38999 Series II	Pages 11-12
Environmental Conditions	Page 6	MIL-C-38999 Series III Key Position	Pages 13
MIL-C-38999 Series I Key Position	Page 7	Shell types of MIL-C-38999 Series III	Pages 14

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How To Order

C 1 W 23 F 35 P 1 N 10 PP28

FAMILY

- C- MIL-C-38999
- B- MIL-C-26482 Page 15
- D- MIL-C-83723 Page 22

SERIES

- 1- Series I
- 2- Series II
- 3- Series III

SHELL STYLE

- J- Jam Nut receptacle
- W- Wall Mount receptacle
- B- Box Mount receptacle
- X- Rear Wall Mount receptacle
- C-Rear Box Mount receptacle

SHELL SIZE

- Series I & III - 09-11-13-15-17-19-21-23-25
- Series II - 08-10-12-14-16-18-20-22-24

MATERIAL & FINISH

- F- Aluminum alloy, electroless nickel-plating
- K- Stainless steel, passivated, corrosion resistant, without firewall capability
- W- Aluminum alloy, olive drab cadmium-plating
- Z- Aluminum alloy, zinc cobalt-plating

INSERT ARRANGEMENT

See Page 5

CONTACT STYLE

- Regular: P-Pin
S-Socket
- Hermetically Sealed: R-Pin
U-Socket

TERMINATION: See Page 6

- 1- Solder Cup
- 2- PCB (tin-plated)
- 3- PCB long (tin-plated)
- 4- PCB (gold-plated)
- 5- PCB long (gold-plated)

POLARIZATION:

Key Position See Page 7

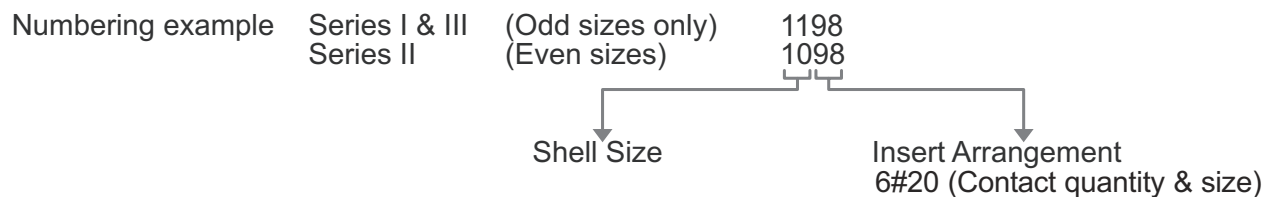
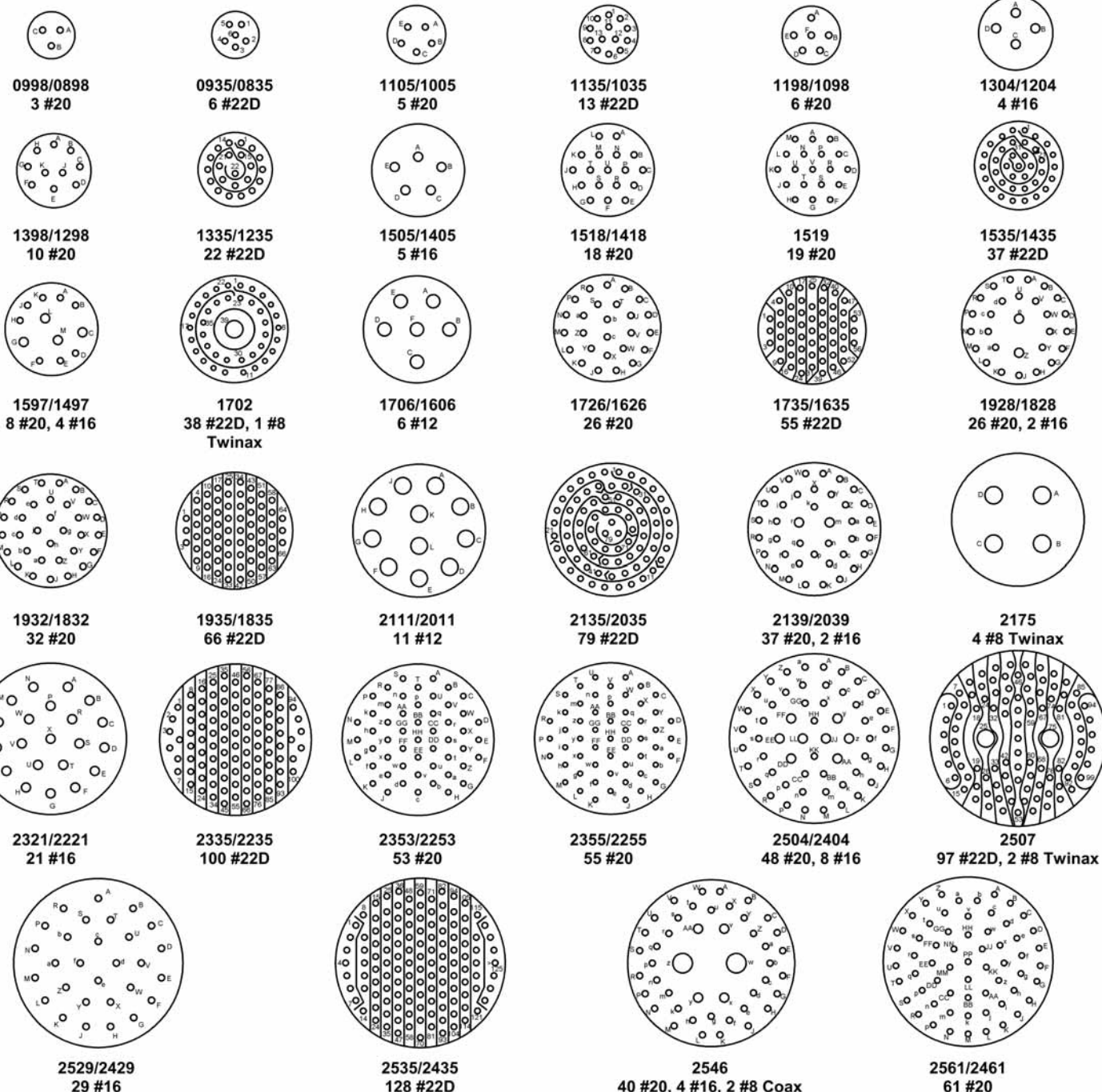
WORKING VOLTAGE: See Page 28

01 6.3V	07 200V	14 800V	00 - For filters with diversified voltages
02 10V	08 250V	15 1000V	99 - For any configuration that incorporates transient protection
03 16V	09 300V	16 1500V	
04 25V	10 400V	17 2000V	
05 50V	11 500V		
06 100V	12 600V		

FILTER CODE AND/OR TRANSIENT PROTECTION CODE: See Page 32

Period - In case where a custom protection is required (diversity of filter types and/or transient protection types) fill period.
Contact sales for customizing.

MIL-C-38999
Series I, II, III

Insert Arrangements Per MIL-STD-1560MIL-C-38999
Series I, II, III

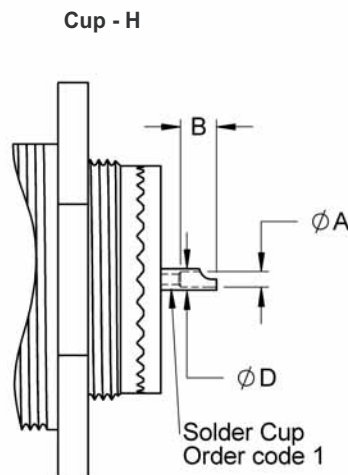
* Mating face of pin is shown, socket insert is opposite

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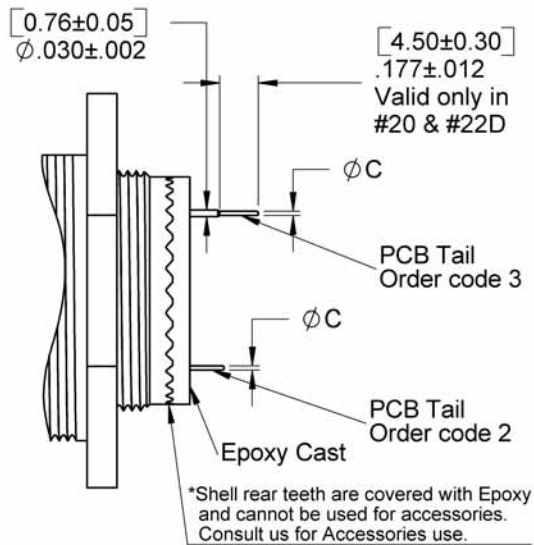
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Termination Types

Termination Solder



Termination PCB Tail - T&V



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Termination Dimensions

* For termination length, refer to specific shell table in this catalog – columns H, T, V.

Contact Size	#22	#20	#16	#12
Ø A ± .002 [±0.05]	.043 [1.10]	.043 [1.10]	.074 [1.90]	.114 [2.90]
B ± .012 [±0.30]	.126 [3.20]	.126 [3.20]	.149 [3.80]	4.20 [1.165]
Ø C ± .002 [±0.05]	.002 [0.05]	.002 [0.05]	.046 [1.16]	2.06 [.081]
Ø D ± .002 [±0.05]	.059 [1.50]	.059 [1.50]	.100 [2.54]	3.60 [.141]

* Consult us regarding special termination lengths and sizes.

Environment Conditions

Description	Values	Paragraph PER			
		ISO 2100	ISO 7137	MIL-STD-1334	MIL-STD-202
Sealing**	<10 ⁻³ cm ³ / Sec at Δ P = 1atm				
Vibration (Random)	Up to 40g RMS 50-2000Hz	12		2005.1	201, 204, 215
Vibration (Sine)	Up to 15g PTP 10-2000Hz	12		2005.1	201, 204, 215
Shock	100g X 11msec		7	2004.1	213
Acceleration	40g	19			
Climactic					103, 106
Temperature	-55°C to +125°C Operating & Storage				
Humidity	Up to 95% @ Storage Temperature range	18b		1002.2	
Altitude	Up to 70,000 ft	18a	4		
Salt Spray		22		1001.1	101
Sand & Dust		23	12		
Contact Endurance	More than 500 Mating cycles	16			

** For hermetically sealed connector, the sealing conditions are <10⁻⁵ cm³ / Sec at Δ P = 1atm

* Dimensions are in inches. Values in brackets are millimeters equivalents.

* Dimensions subject to change without prior notice.

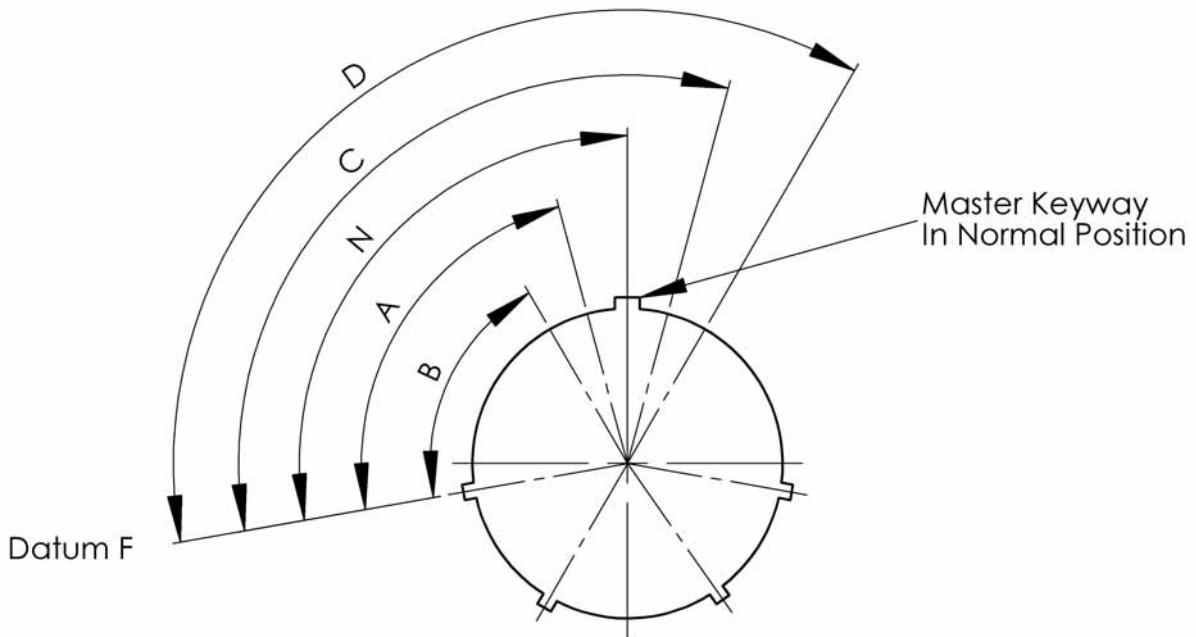
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Key Position

MIL-C-38999
Series I



Mating face of receptacle is shown in the figure (plug is opposite)

Shell Size	Keying Positions				
	N	A	B	C	D
9	95	77	-	-	113
11	95	81	67	123	109
13	95	75	63	127	115
15	95	74	61	129	116
17	95	77	65	125	113
19	95	77	65	125	113
21	95	77	65	125	113
23	95	80	69	121	110
25	95	80	69	121	110

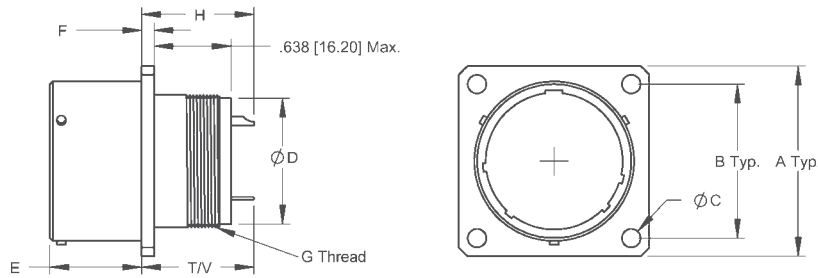
The master keyway is rotated to provide shell polarization, the minor keys remain fixed. Insert arrangement does not rotate with the keyway.

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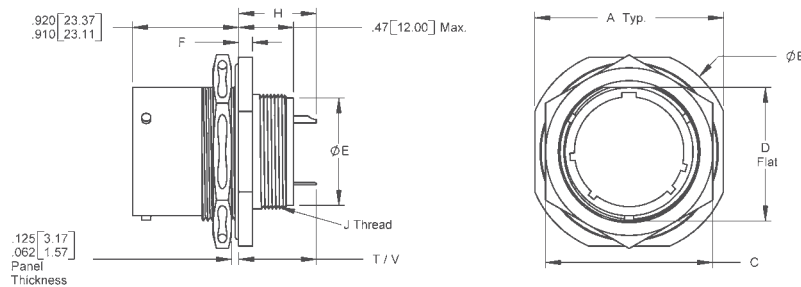
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C1W Wall Mount Receptacle (MS27466 Compatible)



Shell Size	A Max	B ± .004 [± 0.01]	0 C + .010 [0.25] -.005 [0.13]	0 D Max	E Max	F Max	G Thread	H Max		T ± .028 [± 0.70]	V ± .028 [± 0.70]
								#22, #20, #16	#12		
9	.958	.719	.128	.4375	.632	.100	.4375-28	.874	.953	1.052	.953
	[24.33]	[18.26]	[3.25]	[11.11]	[16.05]	[2.54]	UNEF	[22.20]	[24.20]	[26.71]	[24.21]
11	1.051	.812	.128	.5625	.632	.100	.5625-24	.874	.953	1.052	.953
	[26.69]	[20.62]	[3.25]	[14.29]	[16.05]	[2.54]	UNEF	[22.20]	[24.20]	[26.71]	[24.21]
13	1.145	.906	.128	.6875	.632	.100	.6875-24	.874	.953	1.052	.953
	[29.08]	[23.01]	[3.25]	[17.46]	[16.05]	[2.54]	UNEF	[22.20]	[24.20]	[26.71]	[24.21]
15	1.239	.969	.128	.8125	.632	.100	.8125-20	.874	.953	1.052	.953
	[31.47]	[24.61]	[3.25]	[20.64]	[16.05]	[2.54]	UNEF	[22.20]	[24.20]	[26.71]	[24.21]
17	1.332	1.062	.128	.9375	.632	.100	.9375-20	.874	.953	1.052	.953
	[33.83]	[26.97]	[3.25]	[23.81]	[16.05]	[2.54]	UNEF	[22.20]	[24.20]	[26.71]	[24.21]
19	1.458	1.156	.128	1.0625	.632	.100	1.0625-	.874	.953	1.052	.953
	[37.03]	[29.36]	[3.25]	[26.99]	[16.05]	[2.54]	18 UNEF	[22.20]	[24.20]	[26.71]	[24.21]
21	1.582	1.250	.128	1.875	.602	.130	1.1875-	.906	.984	1.082	.983
	[40.18]	[31.75]	[3.25]	[30.16]	[15.29]	[3.30]	18 UNEF	[23.00]	[25.00]	[27.48]	[24.98]
23	1.708	1.375	.147	1.313	.602	.130	1.3125-	.906	.984	1.082	.983
	[43.38]	[34.92]	[3.73]	[33.34]	[15.29]	[3.30]	18 UNEF	[23.00]	[25.00]	[27.48]	[24.98]
25	1.832	1.500	.147	1.438	.602	.130	1.4375-	.906	.984	1.082	.983
	[46.53]	[38.10]	[3.73]	[36.51]	[15.29]	[3.30]	18 UNEF	[23.00]	[25.00]	[27.48]	[24.98]

C1J Jam Nut Receptacle (MS27468 Compatible)



Shell Size	A Max	0 B Max	C Max	D - .010 [- 0.25]	0 E Max	J Thread	F ± .010 [± 0.25]	H Max		T ± .028 [± 0.70]	V ± .028 [± 0.70]
								#22, #20, #16	#12		
9	1.078	1.204	.892	.655	.4375	.4375-28	.109	.591	.669	.768	.669
	[27.38]	[30.58]	[22.65]	[16.64]	[11.11]	UNEF	[2.77]	[15.00]	[17.00]	[19.50]	[17.00]
11	1.266	1.391	1.017	.755	.5625	.5625-24	.109	.591	.669	.768	.669
	[32.15]	[35.33]	[25.83]	[19.18]	[14.29]	UNEF	[2.77]	[15.00]	[17.00]	[19.50]	[17.00]
13	1.391	1.516	1.205	.942	.6875	.6875-24	.109	.591	.669	.768	.669
	[35.33]	[38.50]	[30.60]	[23.93]	[17.46]	UNEF	[2.77]	[15.00]	[17.00]	[19.50]	[17.00]
15	1.516	1.641	1.329	1.066	.8125	.8125-20	.109	.591	.669	.768	.669
	[38.51]	[41.68]	[33.75]	[27.08]	[20.64]	UNEF	[2.77]	[15.00]	[17.00]	[19.50]	[17.00]
17	1.641	1.766	1.455	1.191	.9375	.9375-20	.109	.591	.669	.768	.669
	[41.68]	[44.85]	[36.95]	[30.25]	[23.81]	UNEF	[2.77]	[15.00]	[17.00]	[19.50]	[17.00]
19	1.828	1.954	1.579	1.316	1.0625	1.0625-18	.140	.591	.669	.768	.669
	[46.43]	[49.63]	[40.10]	[33.43]	[26.99]	UNEF	[3.56]	[15.00]	[17.00]	[19.50]	[17.00]
21	1.954	2.078	1.705	1.441	1.875	1.1875-18	.140	.621	.700	.798	.699
	[49.63]	[52.78]	[43.30]	[36.60]	[30.16]	UNEF	[3.56]	[15.77]	[17.78]	[20.27]	[17.76]
23	2.078	2.204	1.829	1.566	1.3125	1.3125-18	.140	.621	.700	.798	.699
	[52.78]	[55.98]	[46.45]	[39.78]	[33.34]	UNEF	[3.56]	[15.77]	[17.78]	[20.27]	[17.76]
25	2.204	2.328	2.017	1.691	1.4375	1.4375-18	.140	.621	.700	.798	.699
	[55.98]	[59.13]	[51.23]	[42.95]	[36.51]	UNEF	[3.56]	[15.77]	[17.78]	[20.27]	[17.76]

* Dimensions are in inches. Values in brackets are millimeters equivalents.

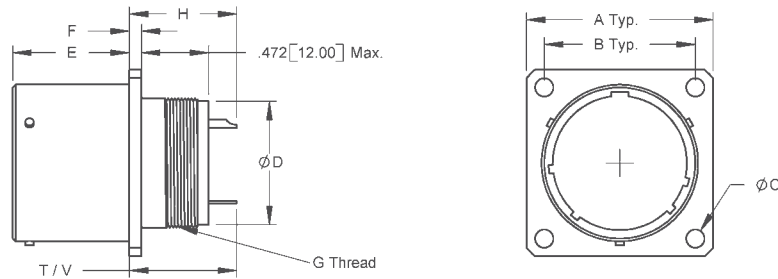
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C1X Rear Wall Mount Receptacle (MS27656 Compatible)



Shell Size	A Max	B ± .008 [±0.2]	Ø C ± .005 [±0.13]	Ø D Max	E Max	F + .015 [+0.38]	G Thread	H Max		T ± .028 [± 0.70]	V ± .028 [± 0.70]
								#22, #20, #16	#12		
9	.958	.719	.128	.4375	.820	.085	.4375-28	.689	.768	.864	.766
	[24.33]	[18.26]	[3.25]	[11.11]	[20.82]	[2.16]	UNEF	[17.50]	[19.50]	[21.94]	[19.45]
11	1.051	.812	.128	.5625	.820	.085	.5625-24	.689	.768	.864	.766
	[26.69]	[20.62]	[3.25]	[14.29]	[20.82]	[2.16]	UNEF	[17.50]	[19.50]	[21.94]	[19.45]
13	1.145	.906	.128	.6875	.820	.085	.6875-24	.689	.768	.864	.766
	[29.08]	[23.01]	[3.25]	[17.46]	[20.82]	[2.16]	UNEF	[17.50]	[19.50]	[21.94]	[19.45]
15	1.239	.969	.128	.8125	.820	.085	.8125-20	.689	.768	.864	.766
	[31.47]	[24.61]	[3.25]	[20.64]	[20.82]	[2.16]	UNEF	[17.50]	[19.50]	[21.94]	[19.45]
17	1.332	1.062	.128	.9375	.820	.085	.9375-20	.689	.768	.864	.766
	[33.83]	[26.97]	[3.25]	[23.81]	[20.82]	[2.16]	UNEF	[17.50]	[19.50]	[21.94]	[19.45]
19	1.458	1.156	.128	1.0625	.820	.085	1.0625-18	.689	.768	.864	.766
	[37.03]	[29.36]	[3.25]	[26.99]	[20.82]	[2.16]	UNEF	[17.50]	[19.50]	[21.94]	[19.45]
21	1.582	1.250	.128	1.1875	.790	.115	1.1875-18	.717	.796	.894	.796
	[40.18]	[31.75]	[3.25]	[30.16]	[20.06]	[2.92]	UNEF	[18.20]	[20.20]	[22.70]	[20.20]
23	1.708	1.375	.147	1.3125	.790	.115	1.3125-18	.717	.796	.894	.796
	[43.38]	[34.92]	[3.73]	[33.34]	[20.06]	[2.92]	UNEF	[18.20]	[20.20]	[22.70]	[20.20]
25	1.832	1.500	.147	1.4375	.790	.115	1.4375-18	.717	.796	.894	.796
	[46.53]	[38.10]	[3.73]	[36.51]	[20.06]	[2.92]	UNEF	[18.20]	[20.20]	[22.70]	[20.20]

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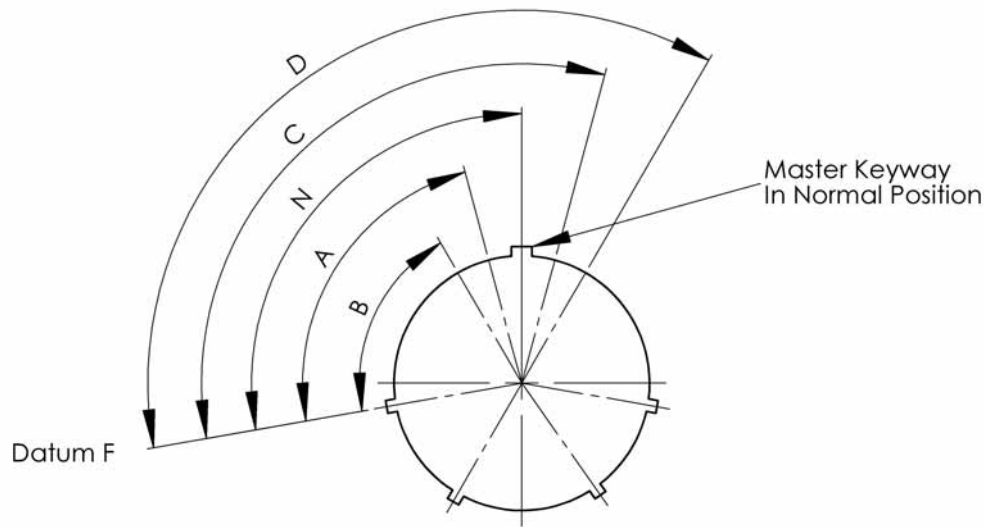
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MIL-C-38999
Series I

Key Position



Mating face of receptacle is shown in the figure (plug is opposite)

Shell Size	Keying Positions				
	N	A	B	C	D
8	100	82	-	-	118
10	100	86	72	128	114
12	100	80	68	132	120
14	100	79	66	134	121
16	100	82	70	130	118
18	100	82	70	130	118
20	100	82	70	130	118
22	100	85	74	126	115
24	100	85	74	126	115

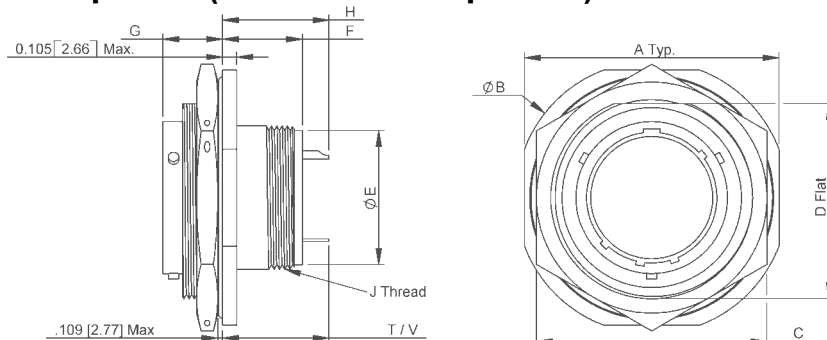
The master keyway is rotated to provide shell polarization, the minor keys remain fixed.
Insert arrangement does not rotate with the keyway.

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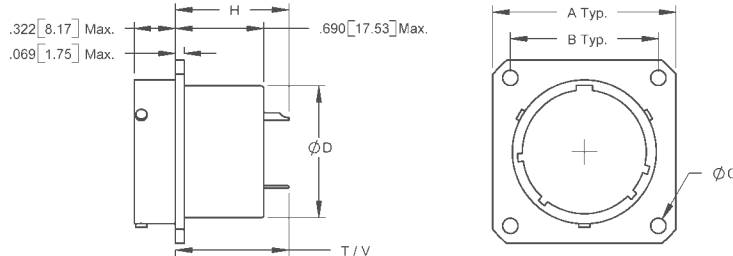
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C2J Jam Nut Receptacle (MS27474 Compatible)



Shell Size	A Max	B ± .004 [± 0.01]	C Max	Ø D Max	E Max	F Max	G Max	J Thread	H Max		V ± .028 [± 0.70]	T ± .028 [± 0.70]
									#22, #20, #16	#12		
9	.958 [24.33]	.719 [18.26]	.128 [3.25]	.4375 [11.11]	.4375 [11.11]	.4375 [11.11]	.4375-28 UNEF	.719 [18.26]	.719 [18.26]	.719 [18.26]	.4375 [11.11]	
11	1.051 [26.69]	.812 [20.62]	.128 [3.25]	.5625 [14.29]	.5625 [14.29]	.5625 [14.29]	.5625-24 UNEF	.812 [20.62]	.812 [20.62]	.812 [20.62]	.5625 [14.29]	
13	1.145 [29.08]	.906 [23.01]	.128 [3.25]	.6875 [17.46]	.6875 [17.46]	.6875 [17.46]	.6875-24 UNEF	.906 [23.01]	.906 [23.01]	.906 [23.01]	.6875 [17.46]	
15	1.239 [31.47]	.969 [24.61]	.128 [3.25]	.8125 [20.64]	.8125 [20.64]	.8125 [20.64]	.8125-20 UNEF	.969 [24.61]	.969 [24.61]	.969 [24.61]	.8125 [20.64]	
17	1.332 [33.83]	1.062 [26.97]	.128 [3.25]	.9375 [23.81]	.9375 [23.81]	.9375 [23.81]	.9375-20 UNEF	1.062 [26.97]	1.062 [26.97]	1.062 [26.97]	.9375 [23.81]	
19	1.458 [37.03]	1.156 [29.36]	.128 [3.25]	1.0625 [26.99]	1.0625 [26.99]	1.0625 [26.99]	1.0625-18 UNEF	1.156 [29.36]	1.156 [29.36]	1.156 [29.36]	1.0625 [26.99]	
21	1.582 [40.18]	1.250 [31.75]	.128 [3.25]	1.875 [30.16]	1.875 [30.16]	1.875 [30.16]	1.1875-18 UNEF	1.250 [31.75]	1.250 [31.75]	1.250 [31.75]	1.875 [30.16]	
23	1.708 [43.38]	1.375 [34.92]	.147 [3.73]	1.313 [33.34]	1.313 [33.34]	1.313 [33.34]	1.3125-18 UNEF	1.375 [34.92]	1.375 [34.92]	1.375 [34.92]	1.313 [33.34]	
25	1.832 [46.53]	1.500 [38.10]	.147 [3.73]	1.438 [36.51]	1.438 [36.51]	1.438 [36.51]	1.4375-18 UNEF	1.500 [38.10]	1.500 [38.10]	1.500 [38.10]	1.438 [36.51]	

C2B Box Mount Receptacle (MS27499 Compatible)



Shell Size	A Max	B ± 0.008 [± 0.2]	Ø C ± 0.008 [± 0.2]	Ø D ± 0.008 [± 0.2]	H Max		T ± .028 [± 0.70]	V ± .028 [± 0.70]
					#22, #20, #16	#12		
8	.827 [21.00]	.594 [15.09]	.120 [3.05]	.453 [11.51]	.827 [21.00]	.906 [23.00]	1.025 [26.03]	1.123 [28.53]
10	.953 [24.20]	.719 [18.26]	.120 [3.05]	.578 [14.69]	.827 [21.00]	.906 [23.00]	1.025 [26.03]	1.123 [28.53]
12	1.047 [26.60]	.812 [20.62]	.120 [3.05]	.703 [17.86]	.827 [21.00]	.906 [23.00]	1.025 [26.03]	1.123 [28.53]
14	1.141 [28.98]	.906 [23.01]	.120 [3.05]	.828 [21.04]	.827 [21.00]	.906 [23.00]	1.025 [26.03]	1.123 [28.53]
16	1.234 [31.34]	.969 [24.61]	.120 [3.05]	.953 [24.21]	.827 [21.00]	.906 [23.00]	1.025 [26.03]	1.123 [28.53]
18	1.327 [33.70]	1.062 [26.97]	.120 [3.05]	1.062 [26.98]	.827 [21.00]	.906 [23.00]	1.025 [26.03]	1.123 [28.53]
20	1.453 [36.90]	1.156 [29.36]	.120 [3.05]	1.188 [30.18]	.827 [21.00]	.906 [23.00]	1.025 [26.03]	1.123 [28.53]
22	1.578 [40.08]	1.250 [31.75]	.120 [3.05]	1.312 [33.33]	.827 [21.00]	.906 [23.00]	1.025 [26.03]	1.123 [28.53]
24	1.703 [43.26]	1.375 [34.93]	.147 [3.73]	1.438 [36.53]	.827 [21.00]	.906 [23.00]	1.025 [26.03]	1.123 [28.53]

* Dimensions are in inches. Values in brackets are millimeters equivalents.

* Dimensions subject to change without prior notice.

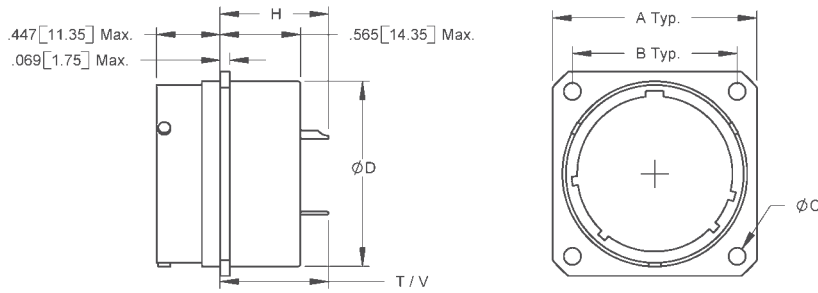
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MIL-C-38999
Series II

C2C Rear Box Mount Receptacle (MS27508 Compatible)



Shell Size	A Max	B ± 0.008 [± 0.2]	Ø C ± 0.008 [± 0.2]	Ø D ± 0.008 [± 0.2]	H Max		T Max	V Max
					#22, #20, #16	#12		
8	.827	.594	.120	.547	.647	.785	.884	.786
	[21.00]	[15.09]	[3.05]	[13.90]	[16.44]	[19.94]	[22.46]	[19.96]
10	.953	.719	.120	.672	.647	.785	.884	.786
	[24.20]	[18.26]	[3.05]	[17.07]	[16.44]	[19.94]	[22.46]	[19.96]
12	1.047	.812	.120	.844	.647	.785	.884	.786
	[26.60]	[20.62]	[3.05]	[21.44]	[16.44]	[19.94]	[22.46]	[19.96]
14	1.141	.906	.120	.969	.647	.785	.884	.786
	[28.98]	[23.01]	[3.05]	[24.62]	[16.44]	[19.94]	[22.46]	[19.96]
16	1.234	.969	.120	1.094	.647	.785	.884	.786
	[31.34]	[24.61]	[3.05]	[27.79]	[16.44]	[19.94]	[22.46]	[19.96]
18	1.327	1.062	.120	1.219	.647	.785	.884	.786
	[33.70]	[26.97]	[3.05]	[30.97]	[16.44]	[19.94]	[22.46]	[19.96]
20	1.453	1.156	.120	1.344	.647	.785	.884	.786
	[36.90]	[29.36]	[3.05]	[34.14]	[16.44]	[19.94]	[22.46]	[19.96]
22	1.578	1.250	.120	1.469	.647	.785	.884	.786
	[40.08]	[31.75]	[3.05]	[37.32]	[16.44]	[19.94]	[22.46]	[19.96]
24	1.703	1.375	.147	1.595	.647	.785	.884	.786
	[43.26]	[34.93]	[3.73]	[40.49]	[16.44]	[19.94]	[22.46]	[19.96]

MIL-C-38999
Series II

* Dimensions are in inches. Values in brackets are millimeters equivalents.

* Dimensions subject to change without prior notice.

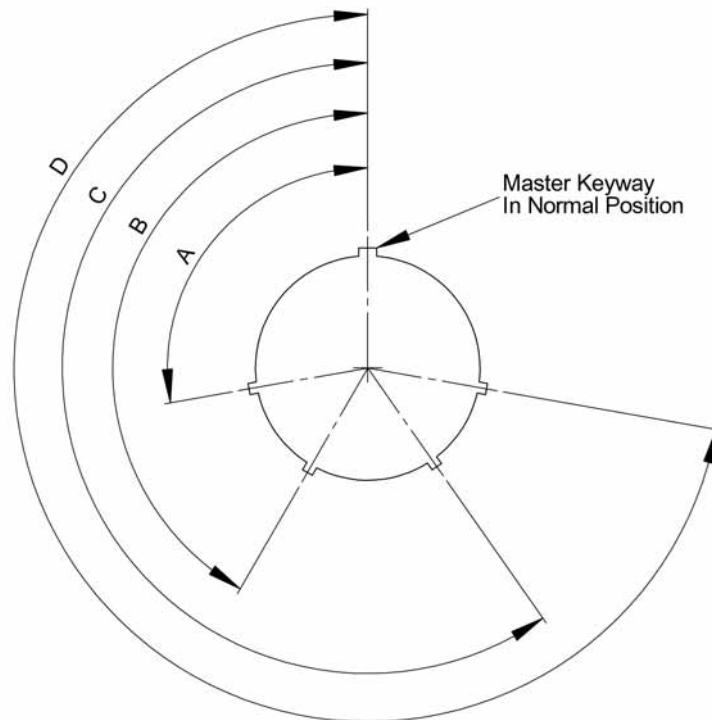
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Key Position

MIL-C-38999
Series III



Mating face of receptacle is shown in the figure (plug is opposite)

Size	Polarizing Positions	Key Locations			
		A	B	C	D
9	N	105	140	215	265
	A	102	132	248	320
	B	80	118	230	312
	C	35	140	205	275
	D	64	155	234	304
11 to 15	E	91	131	197	240
	N	95	141	208	236
	A	113	156	182	292
	B	90	145	195	252
	C	53	156	220	255
17 to 25	D	119	146	176	298
	E	51	141	184	242
	N	80	142	195	293
	A	135	170	200	310
	B	49	169	200	244
17 to 25	C	66	140	200	257
	D	62	145	180	280
	E	79	153	190	272

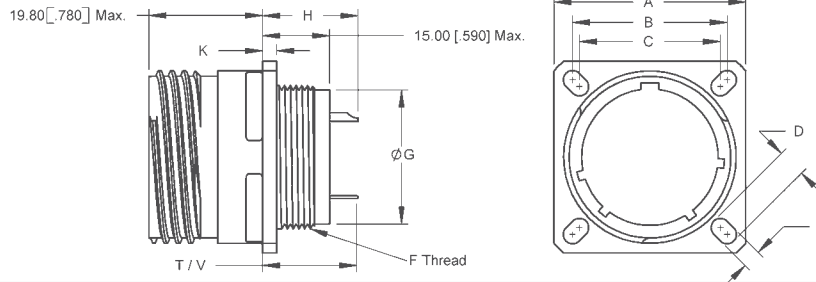
The master keyway is fixed, all the minor keys are rotated to provide shell polarization.
Insert arrangement does not rotate with the keyway.

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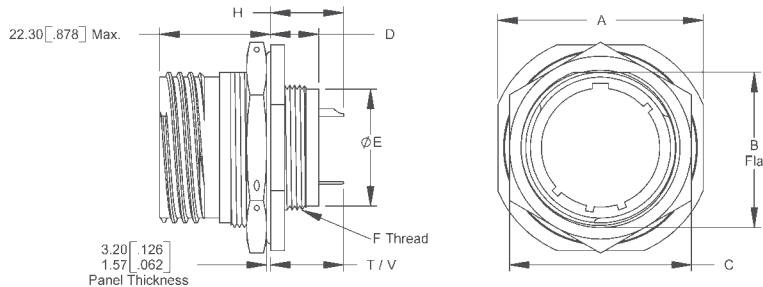
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C3W Wall Mount Receptacle (D38999/20 Compatible)



Shell Size	A Max	B ± .004 [± 0.01]	C Max	Ø D Max	E Max	F Max	G Max	J Thread	H Max		V ± .028 [± 0.70]	T + .028 [± 0.70]
									#22, #20, #16	#12		
9	.958	.719	.128	.4375	.4375	.4375	.4375-28	.719	.719	.719	.719	.4375
	[24.33]	[18.26]	[3.25]	[11.11]	[11.11]	[11.11]	UNEF	[18.26]	[18.26]	[18.26]	[18.26]	[11.11]
11	1.051	.812	.128	.5625	.5625	.5625	.5625-24	.812	.812	.812	.812	.5625
	[26.69]	[20.62]	[3.25]	[14.29]	[14.29]	[14.29]	UNEF	[20.62]	[20.62]	[20.62]	[20.62]	[14.29]
13	1.145	.906	.128	.6875	.6875	.6875	.6875-24	.906	.906	.906	.906	.6875
	[29.08]	[23.01]	[3.25]	[17.46]	[17.46]	[17.46]	UNEF	[23.01]	[23.01]	[23.01]	[23.01]	[17.46]
15	1.239	.969	.128	.8125	.8125	.8125	.8125-20	.969	.969	.969	.969	.8125
	[31.47]	[24.61]	[3.25]	[20.64]	[20.64]	[20.64]	UNEF	[24.61]	[24.61]	[24.61]	[24.61]	[20.64]
17	1.332	1.062	.128	.9375	.9375	.9375	.9375-20	1.062	1.062	1.062	1.062	.9375
	[33.83]	[26.97]	[3.25]	[23.81]	[23.81]	[23.81]	UNEF	[26.97]	[26.97]	[26.97]	[26.97]	[23.81]
19	1.458	1.156	.128	1.0625	1.0625	1.0625	1.0625-	1.156	1.156	1.156	1.156	1.0625
	[37.03]	[29.36]	[3.25]	[26.99]	[26.99]	[26.99]	18 UNEF	[29.36]	[29.36]	[29.36]	[29.36]	[26.99]
21	1.582	1.250	.128	1.875	1.875	1.875	1.1875-	1.250	1.250	1.250	1.250	1.875
	[40.18]	[31.75]	[3.25]	[30.16]	[30.16]	[30.16]	18 UNEF	[31.75]	[31.75]	[31.75]	[31.75]	[30.16]
23	1.708	1.375	.147	1.313	1.313	1.313	1.3125-	1.375	1.375	1.375	1.375	1.313
	[43.38]	[34.92]	[3.73]	[33.34]	[33.34]	[33.34]	18 UNEF	[34.92]	[34.92]	[34.92]	[34.92]	[33.34]
25	1.832	1.500	.147	1.438	1.438	1.438	1.4375-	1.500	1.500	1.500	1.500	1.438
	[46.53]	[38.10]	[3.73]	[36.51]	[36.51]	[36.51]	18 UNEF	[38.10]	[38.10]	[38.10]	[38.10]	[36.51]

C3J Jam Nut Receptacle (D38999/24 Compatible)



Shell Size	A Max	B ± 0.008 [± 0.2]	B ± 0.008 [± 0.2]	B ± 0.008 [± 0.2]	H Max		T Max	V Max
					#22, #20, #16	#12		
8)-0	.719	.719	.719	.719	.719	.719	.719
	O-233P	[18.26]	[18.26]	[18.26]	[18.26]	[18.26]	[18.26]	[18.26]
10	*#"	.812	.812	.812	.812	.812	.812	.812
	O-/-3P	[20.62]	[20.62]	[20.62]	[20.62]	[20.62]	[20.62]	[20.62]
12	23/0	.906	.906	.906	.906	.906	.906	.906
	O-..3P	[23.01]	[23.01]	[23.01]	[23.01]	[23.01]	[23.01]	[23.01]
14	22/2	.969	.969	.969	.969	.969	.969	.969
	O-)*P	[24.61]	[24.61]	[24.61]	[24.61]	[24.61]	[24.61]	[24.61]
16	2-"/	1.062	1.062	1.062	1.062	1.062	1.062	1.062
	O"2"/P	[26.97]	[26.97]	[26.97]	[26.97]	[26.97]	[26.97]	[26.97]
18	2"-0	1.156	1.156	1.156	1.156	1.156	1.156	1.156
	O""03P	[29.36]	[29.36]	[29.36]	[29.36]	[29.36]	[29.36]	[29.36]
20	"*3	1.250	1.250	1.250	1.250	1.250	1.250	1.250
	O2/#"P	[31.75]	[31.75]	[31.75]	[31.75]	[31.75]	[31.75]	[31.75]
22	2#0)	1.375	1.375	1.375	1.375	1.375	1.375	1.375
	O/33)P	[34.92]	[34.92]	[34.92]	[34.92]	[34.92]	[34.92]	[34.92]
24	203"	1.500	1.500	1.500	1.500	1.500	1.500	1.500
	O"/-.P	[38.10]	[38.10]	[38.10]	[38.10]	[38.10]	[38.10]	[38.10]

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MIL-C-26482 Series IIMIL-C-26482
Series II

These connectors are offered with 20, 16, 12 size contacts, and shell sizes of 8 through 24.

Square flange, jam nut single-hole mount receptacles are available.

The connectors are available with aluminum shells, electroless nickel and cadmium-plated olive drab. Passivated stainless steel shells are also available.

They can mate with non-filtered connectors and they are drop-in replacements for non-filtered connectors. Non-standard filter connector body sizes and shapes and insert arrangements are available.

Material & Finish

Shell - Aluminum alloy, olive drab cadmium-plating.
Aluminum alloy, electroless nickel-plating.
Stainless steel, passivated.

Contacts - Copper alloy, gold plate.

Grommer & O-ring - Silicon-based elastomer.

Contacts termination - PCB Tail, gold-plating.
PCB Tail, tin-plating.
Solder cup, tin-plating.

Insert - High grade Thermoplastic / Thermose / Epoxy.

Content of Section

How To Order	Page 16
Insert Arrangements	Page 17
Key Position	Page 18
Termination Types	Page 19
Environmental Conditions	Page 19
Shell Types	Page 20-21

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How To Order

B 2 F 14 K 05 P 1 N 06 CC30

FAMILY

- C- MIL-C-38999 Page 3
- B- MIL-C-26482**
- D- MIL-C-83723 Page 22

SERIES

- 2- Series II**

SHELL STYLE

- J- Jam Nut receptacle
- W- Wall Mount receptacle**
- F- Wall Mount Wide Flange receptacle

SHELL SIZE

- Series II - 08-10-12-14-16-18-20-22-24

MATERIAL & FINISH

- F- Aluminum alloy, electroless nickel-plating
- K- Stainless steel, passivated, corrosion resistant, without firewall capability**
- W- Aluminum alloy, olive drab cadmium-plating
- Z- Aluminum alloy, zinc cobalt-plating

INSERT ARRANGEMENT

- See Page 5

CONTACT STYLE

- Regular: **P-Pin**
S-Socket
- Hermetically Sealed: **R-Pin**
U-Socket

TERMINATION: See Page 19

- 1- Solder Cup** **3- PCB (gold-plated)**
- 2- PCB (tin-plated)**

POLARIZATION:

- Key Position, See Page 18

WORKING VOLTAGE: See Page 28

01 6.3V	07 200V	14 800V	00 - For filters with diversified voltages
02 10V	08 250V	15 1000V	99 - For any configuration that incorporates transient protection
03 16V	09 300V	16 1500V	
04 25V	10 400V	17 2000V	
05 50V	11 500V		
06 100V	12 600V		

FILTER CODE AND/OR TRANSIENT PROTECTION CODE: See Page 32

Period - In case where a custom protection is required (diversity of filter types and/or transient protection types) fill period.
Contact sales for customizing.

MIL-C-26482
Series II

Contact us for filter connectors not included in this catalog

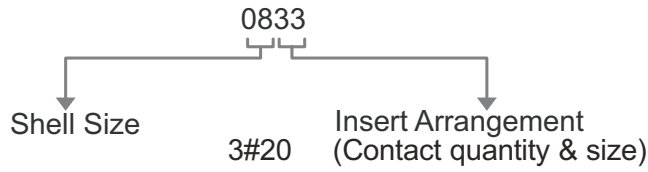
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Insert Arrangements Per MIL-STD-1669

Numbering example



MIL-C-26482 Series II

 0833 3 #20	 0898 3 #20	 1006 6 #20	 1203 3 #16	 1208 8 #20
 1210 10 #20	 1404 4 #12	 1405 5 #16	 1412 4 #16, 8 #20	 1415 1 #16, 14 #20
 1418 18 #20	 1419 19 #20	 1608 8 #16	 1626 26 #20	 1808 8 #12
 1811 11 #16	 1832 32 #20	 2016 16 #16	 2039 2 #16, 37 #20	 2041 41 #20
 2221 21 #16	 2255 55 #20	 2419 19 #12	 2431 31 #16	 2461 61 #20

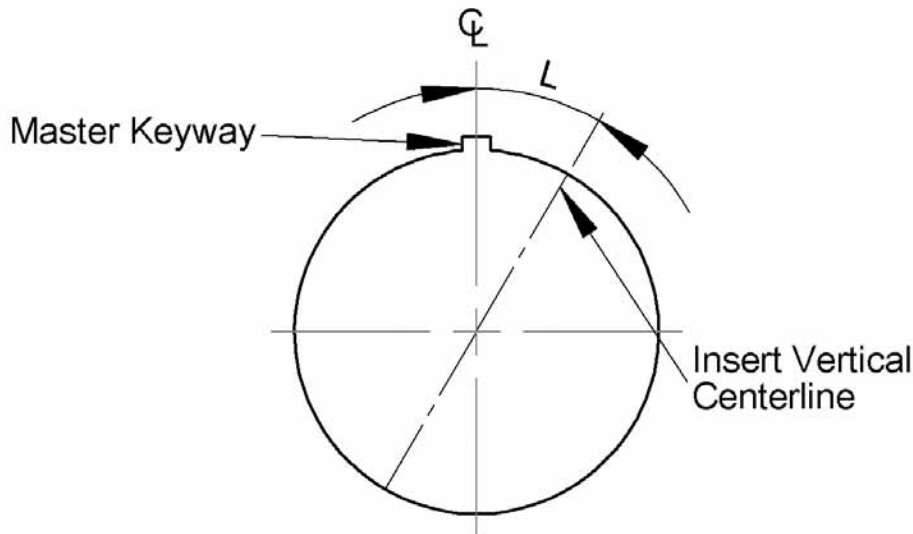
* Mating face of pin is shown, socket insert is opposite

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Key Position



1. In the normal insert clocking position (position N), the insert centerline coincides with the centerline of the master keyway of the shell.
2. In the alternate insert clocking position (W, X, Y, Z), the pin insert is rotated clockwise relative to the centerline of the master keyway as indicated in the figure and chart. The socket insert is rotated counter-clockwise.
3. Plugs have keys, receptacles have keyways.

Shell size & Insert Arrangement	L Degrees				
	N	W	X	Y	Z
8-33	0	90	-	-	-
8-98	0	-	-	-	-
10-6	0	90	-	-	-
12-3	0	-	-	180	-
12-8	0	90	112	203	292
12-10	0	60	155	270	295
14-4	0	45	-	-	-
14-5	0	40	92	184	273
14-12	0	43	90	-	-
14-15	0	17	110	155	234
14-18	0	15	90	180	270
14-19	0	30	165	315	-
16-8	0	54	152	180	331
16-26	0	60	-	275	338
18-8	0	180	-	-	-
18-11	0	62	119	241	340
18-32	0	85	138	222	265
20-16	0	238	318	333	347
20-39	0	63	144	252	333
20-41	0	45	126	225	-
22-21	0	16	135	175	349
22-55	0	30	142	226	314
24-19	0	30	165	315	-
24-31	0	90	225	255	-
24-61	0	90	180	270	324

The master key is rotated to provide polarization, the minor keys remain fixed.
Insert arrangement does not rotate with the key / keyway.

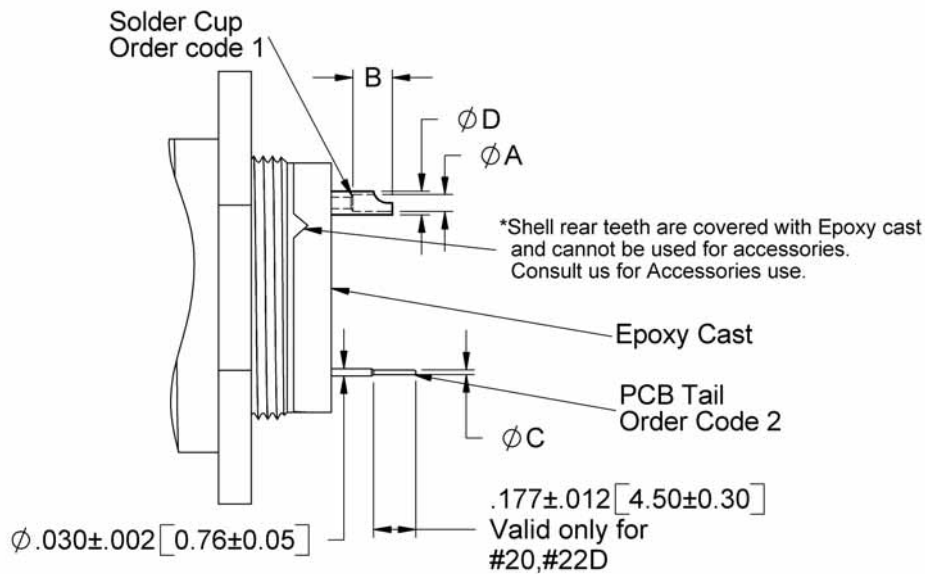
* Mating face of pin is shown. Socket insert is opposite

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Termination Types & Sizes



Termination Dimensions

* For extension dimensions, refer to specific shell table in this catalog – columns H, T.

Contact Size	#22	#20	#16	#12
Ø A ± .002	.043	.043	.074	.114
[+0.05]	[1.10]	[1.10]	[1.90]	[2.90]
B ± .012	.126	.126	.149	4.20
[+0.30]	[3.20]	[3.20]	[3.80]	[.165]
Ø C ± .002	.002	.002	.046	2.06
[+0.05]	[0.05]	[0.05]	[1.16]	[.081]
Ø D ± .002	.059	.059	.100	3.60
[+0.05]	[1.50]	[1.50]	[2.54]	[.141]

* Consult us regarding special termination lengths and sizes.

Environment Conditions

Description	Values	Paragraph PER			
		ISO 2100	ISO 7137	MIL-STD-1334	MIL-STD-202
Sealing**	<10 ⁻³ cm ³ / Sec at Δ P = 1atm				
Vibration (Random)	Up to 40g RMS 50-2000Hz	12		2005.1	201, 204, 215
Vibration (Sine)	Up to 15g PTP 10-2000Hz	12		2005.1	201, 204, 215
Shock	100g X 11msec		7	2004.1	213
Acceleration	40g	19			
Climactic					103, 106
Temperature	-55°C to +125°C Operating & Storage				
Humidity	Up to 95% @ Storage Temperature range	18b		1002.2	
Altitude	Up to 70,000 ft	18a	4		
Salt Spray		22		1001.1	101
Sand & Dust		23	12		
Contact Endurance	More than 500 Mating cycles	16			

** For hermetically sealed connector, the sealing conditions are <10⁻⁵ cm³ / Sec at Δ P = 1atm

* Dimensions are in inches. Values in brackets are millimeters equivalents.

* Dimensions subject to change without prior notice.

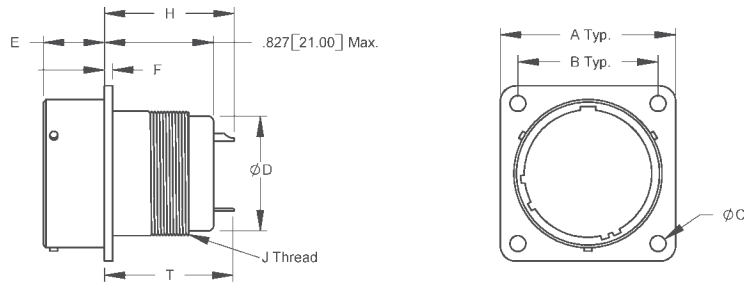
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MIL-C-26482
Series II

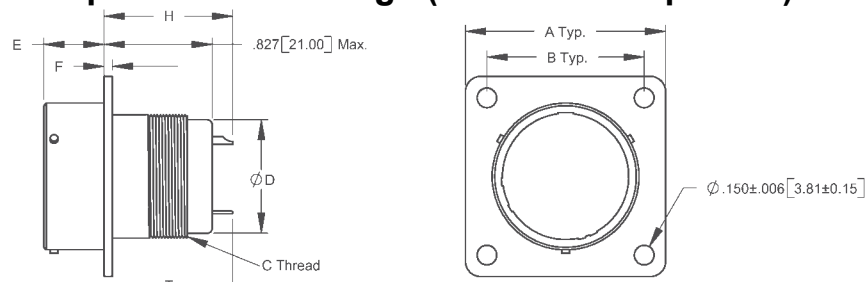
B2W Wall Mount Receptacle (MS3470 Compatible)



Shell Size	A Max	B ± .004 [± 0.01]	C Max	Ø D Max	E Max	F Max	G Max	J Thread	H Max		V ± .028 [± 0.70]	T ± .028 [± 0.70]
									#22, #20, #16	#12		
9	.958 [24.33]	.719 [18.26]	.128 [3.25]	.4375 [11.11]	.4375 [11.11]	.4375 [11.11]	.4375-28 UNEF	.719 [18.26]	.719 [18.26]	.719 [18.26]	.4375 [11.11]	
11	1.051 [26.69]	.812 [20.62]	.128 [3.25]	.5625 [14.29]	.5625 [14.29]	.5625 [14.29]	.5625-24 UNEF	.812 [20.62]	.812 [20.62]	.812 [20.62]	.5625 [14.29]	
13	1.145 [29.08]	.906 [23.01]	.128 [3.25]	.6875 [17.46]	.6875 [17.46]	.6875 [17.46]	.6875-24 UNEF	.906 [23.01]	.906 [23.01]	.906 [23.01]	.6875 [17.46]	
15	1.239 [31.47]	.969 [24.61]	.128 [3.25]	.8125 [20.64]	.8125 [20.64]	.8125 [20.64]	.8125-20 UNEF	.969 [24.61]	.969 [24.61]	.969 [24.61]	.8125 [20.64]	
17	1.332 [33.83]	1.062 [26.97]	.128 [3.25]	.9375 [23.81]	.9375 [23.81]	.9375 [23.81]	.9375-20 UNEF	1.062 [26.97]	1.062 [26.97]	1.062 [26.97]	.9375 [23.81]	
19	1.458 [37.03]	1.156 [29.36]	.128 [3.25]	1.0625 [26.99]	1.0625 [26.99]	1.0625 [26.99]	1.0625-18 UNEF	1.156 [29.36]	1.156 [29.36]	1.156 [29.36]	1.0625 [26.99]	
21	1.582 [40.18]	1.250 [31.75]	.128 [3.25]	1.875 [30.16]	1.875 [30.16]	1.875 [30.16]	1.875-18 UNEF	1.250 [31.75]	1.250 [31.75]	1.250 [31.75]	1.875 [30.16]	
23	1.708 [43.38]	1.375 [34.92]	.147 [3.73]	1.313 [33.34]	1.313 [33.34]	1.313 [33.34]	1.3125-18 UNEF	1.375 [34.92]	1.375 [34.92]	1.375 [34.92]	1.313 [33.34]	
25	1.832 [46.53]	1.500 [38.10]	.147 [3.73]	1.438 [36.51]	1.438 [36.51]	1.438 [36.51]	1.4375-18 UNEF	1.500 [38.10]	1.500 [38.10]	1.500 [38.10]	1.438 [36.51]	

MIL-C-26482
Series II

B2F Wall Mount Receptacle Wide Flange (MS3472 Compatible)



Shell Size	A Max	B ± 0.008 [± 0.2]	B ± 0.008 [± 0.2]	B ± 0.008 [± 0.2]	H Max		T Max	V Max
					#22, #20, #16	#12		
8)-0 O-233P	.719 [18.26]	.719 [18.26]	.719 [18.26]	.719 [18.26]	.719 [18.26]	.719 [18.26]	.719 [18.26]
10	*#" O-/-3P	.812 [20.62]	.812 [20.62]	.812 [20.62]	.812 [20.62]	.812 [20.62]	.812 [20.62]	.812 [20.62]
12	23/0 O-..3P	.906 [23.01]	.906 [23.01]	.906 [23.01]	.906 [23.01]	.906 [23.01]	.906 [23.01]	.906 [23.01]
14	22/2 O-*)P	.969 [24.61]	.969 [24.61]	.969 [24.61]	.969 [24.61]	.969 [24.61]	.969 [24.61]	.969 [24.61]
16	2-"/ O"2"/P	1.062 [26.97]	1.062 [26.97]	1.062 [26.97]	1.062 [26.97]	1.062 [26.97]	1.062 [26.97]	1.062 [26.97]
18	2"-0 O""03P	1.156 [29.36]	1.156 [29.36]	1.156 [29.36]	1.156 [29.36]	1.156 [29.36]	1.156 [29.36]	1.156 [29.36]
20	".*3 O2/#"P	1.250 [31.75]	1.250 [31.75]	1.250 [31.75]	1.250 [31.75]	1.250 [31.75]	1.250 [31.75]	1.250 [31.75]
22	2#0) O/33)P	1.375 [34.92]	1.375 [34.92]	1.375 [34.92]	1.375 [34.92]	1.375 [34.92]	1.375 [34.92]	1.375 [34.92]
24	203" O"/-.P	1.500 [38.10]	1.500 [38.10]	1.500 [38.10]	1.500 [38.10]	1.500 [38.10]	1.500 [38.10]	1.500 [38.10]

* Dimensions are in inches. Values in brackets are millimeters equivalents.

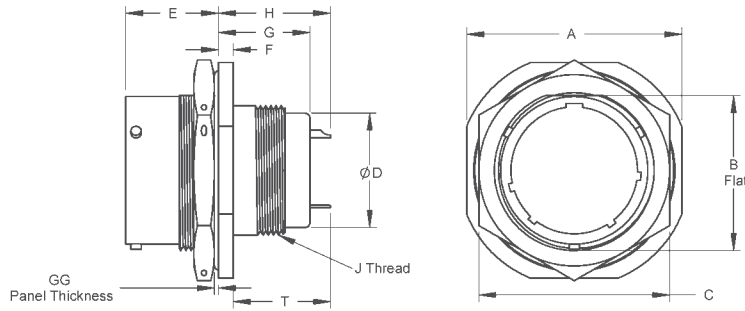
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B2J Jam Nut Receptacle (MS3474 Compatible)



MIL-C-26482 Series II

Shell Size	A Max	B ± 0.13 [± .005]	C Max	Ø D Max	E	F	G Max	CG Max	J Thread	H Max		T + .028 [± 0.70]
										#22, #20, #16	#12	
8	.954	.525	.767	.500	.493	.062	.646	.187	1/2-20	.787	.886	.917
	[24.24]	[13.34]	[19.49]	[12.70]	[12.52]	[1.57]	[16.40]	[4.75]	UNF	[20.00]	[22.00]	[23.30]
10	1.078	.650	.892	.625	.493	.062	.646	.187	5/8-20	.787	.886	.917
	[27.39]	[16.51]	[22.66]	[15.88]	[12.52]	[1.57]	[16.40]	[4.75]	UNEF	[20.00]	[22.00]	[23.30]
12	1.266	.813	1.079	.750	.493	.062	.646	.187	3/4-20	.787	.886	.917
	[32.16]	[20.65]	[27.41]	[19.05]	[12.52]	[1.57]	[16.40]	[4.75]	UNEF	[20.00]	[22.00]	[23.30]
14	1.391	.937	1.205	.875	.493	.062	.646	.187	7/8-20	.787	.886	.917
	[35.34]	[23.80]	[30.61]	[22.22]	[12.52]	[1.57]	[16.40]	[4.75]	UNEF	[20.00]	[22.00]	[23.30]
16	1.516	1.061	1.329	1.000	.493	.062	.646	.187	1-20	.787	.886	.917
	[38.51]	[26.95]	[33.76]	[25.40]	[12.52]	[1.57]	[16.40]	[4.75]	UNEF	[20.00]	[22.00]	[23.30]
18	1.641	1.186	1.455	1.063	.493	.062	.646	.187	1-1/16-18	.787	.886	.917
	[41.69]	[30.12]	[36.96]	[26.99]	[12.52]	[1.57]	[16.40]	[4.75]	UNEF	[20.00]	[22.00]	[23.30]
20	1.828	1.311	1.579	1.875	.587	.094	.581	.250	1-3/16-18	.724	.803	.852
	[46.44]	[33.30]	[40.11]	[30.16]	[14.91]	[2.39]	[14.75]	[6.35]	UNEF	[18.40]	[20.40]	[21.65]
22	1.954	1.436	1.705	1.3125	.587	.094	.581	.250	1-5/16-18	.724	.803	.852
	[49.64]	[36.47]	[43.31]	[33.34]	[14.91]	[2.39]	[14.75]	[6.35]	UNEF	[18.40]	[20.40]	[21.65]
24	2.078	1.561	1.829	1.4375	.587	.094	.581	.219	1-7/16-18	.724	.803	.852
	[52.79]	[39.65]	[46.46]	[36.51]	[14.91]	[2.39]	[14.75]	[5.56]	UNEF	[18.40]	[20.40]	[21.65]

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MIL-C-26482 Series IIMIL-C-26482
Series II

These connectors are offered with 20, 16, 12 size contacts, and shell sizes of 8 through 24.

Square flange, jam nut single-hole mount receptacles are available.

The connectors are available with aluminum shells, electroless nickel and cadmium-plated olive drab. Passivated stainless steel shells are also available.

They can mate with non-filtered connectors and they are drop-in replacements for non-filtered connectors. Non-standard filter connector body sizes and shapes and insert arrangements are available.

Material & Finish

Shell - Aluminum alloy, olive drab cadmium-plating.
Aluminum alloy, electroless nickel-plating.
Stainless steel, passivated.

Contacts - Copper alloy, gold plate.

Grommer & O-ring - Silicon-based elastomer.

Contacts termination - PCB Tail, gold-plating.
PCB Tail, tin-plating.
Solder cup, tin-plating.

Insert - High grade Thermoplastic / Thermose / Epoxy.

Content of Section

How To Order	Page 16
Insert Arrangements	Page 17
Key Position	Page 18
Termination Types	Page 19
Environmental Conditions	Page 19
Shell Types	Page 20-21

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How To Order

D 3 J 24 W 61 P 1 N 99 YB54

FAMILY

- C- MIL-C-38999 Page 3
- B- MIL-C-26482 Page 15
- D- MIL-C-83723**

SERIES

- 3- Series III**

SHELL STYLE

- J- Jam Nut receptacle
- W- Wall Mount receptacle**

SHELL SIZE

- Series II - 08-10-12-14-16-18-20-22-24

MATERIAL & FINISH

- F- Aluminum alloy, electroless nickel-plating
- K- Stainless steel, passivated, corrosion resistant, without firewall capability
- W- Aluminum alloy, olive drab cadmium-plating**
- Z- Aluminum alloy, zinc cobalt-plating

INSERT ARRANGEMENT

See Page 24

CONTACT STYLE

- Regular: **P-Pin**
S-Socket
- Hermetically Sealed: **R-Pin**
U-Socket

TERMINATION: See Page 26

- 1- Solder Cup 3- PCB (gold-plated)
- 2- PCB (tin-plated)

POLARIZATION:

Key Position, See Page 25

WORKING VOLTAGE: See Page 28

01 6.3V	07 200V	14 800V	00 - For filters with diversified voltages
02 10V	08 250V	15 1000V	99 - For any configuration that incorporates transient protection
03 16V	09 300V	16 1500V	
04 25V	10 400V	17 2000V	
05 50V	11 500V		
06 100V	12 600V		

FILTER CODE AND/OR TRANSIENT PROTECTION CODE: See Page 32

Period - In case where a custom protection is required (diversity of filter types and/or transient protection types) fill period.
Contact sales for customizing.

MIL-C-83723
Series III

Contact us for filter connectors not included in this catalog

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Insert Arrangements Per MIL-STD-1554

Numbering example



0803
3 #20



0898
3 #20



1002
2 #20



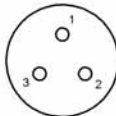
1005
5 #20



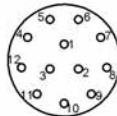
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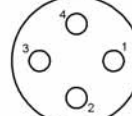
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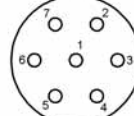
1203
3 #16



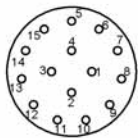
1212
12 #20



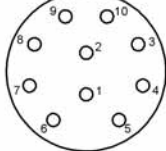
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4 #12



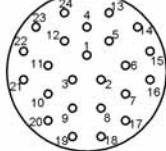
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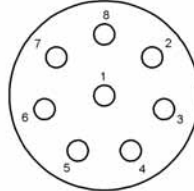
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15 #20



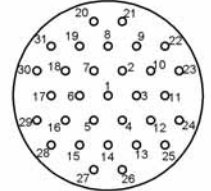
1610
10 #16



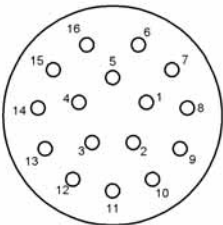
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20 #20



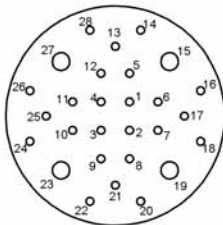
1808
8 #12



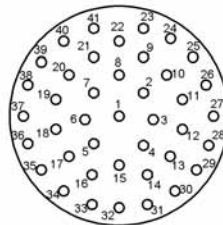
1831
31 #20



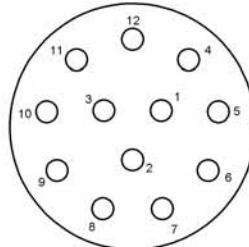
2016
16 #16



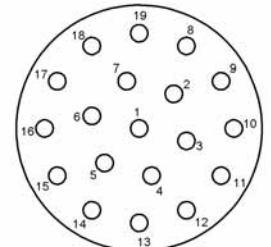
2028
24 #20, 4 #12



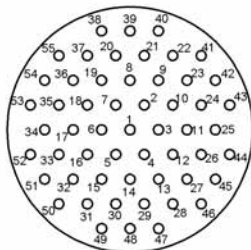
2041
41 #20



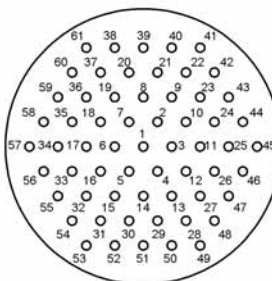
2212
12 #12



2219
19 #16



2255
55 #20



2461
61 #20

* Mating face of pin is shown, socket insert is opposite

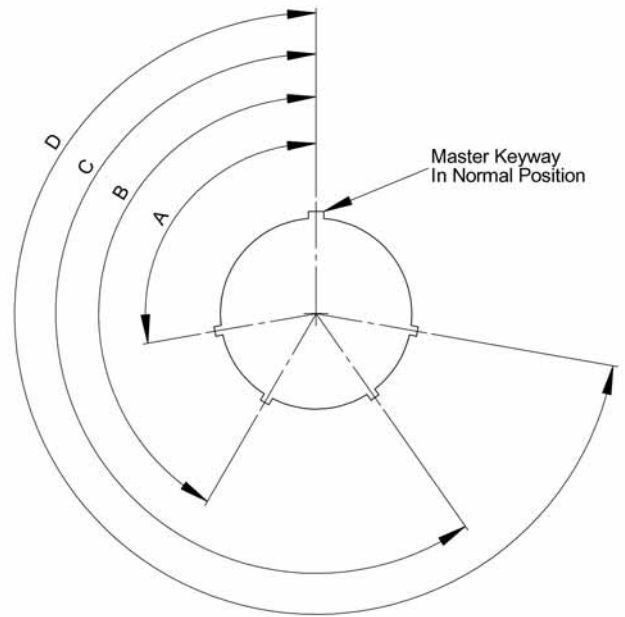
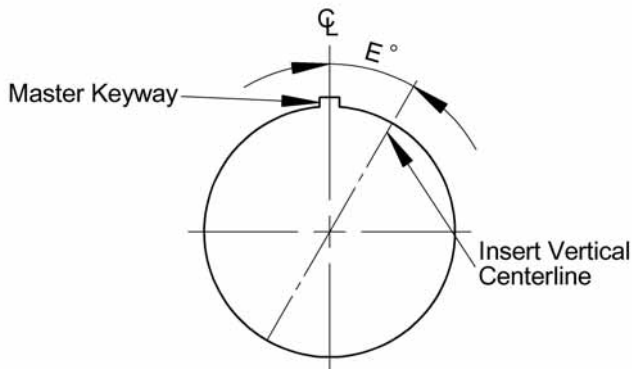
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Key Position

MIL-C-83723
Series III



Insert Clocking Per MIL-STD-1554

Shell Size	Polarizing Position	A	B	C	D	Insert Position E
8, 10	N	105	140	215	265	0
	1*	105	140	215	265	10
	2*	105	140	215	265	20
	3*	105	140	215	265	30
	4*	105	140	215	265	40
12 Thru 24	N	105	140	215	265	0
	1*	105	140	215	265	10
	2*	105	140	215	265	20
	3*	105	140	215	265	30
	4*	105	140	215	265	40
	5*	105	140	215	265	50

Keying Position Per MIL-STD-1554

Shell Size	Polarizing Position	A	B	C	D	Insert Position E
8 Thru 24	N	105	140	215	265	0
8 & 10	6	102	132	248	320	0
	7	80	118	230	312	0
	8	35	140	205	275	0
	9	64	155	234	304	0
10 Only	Y	25	115	220	270	0
12 Thru 24	6	18	149	192	259	0
	7	92	152	222	342	0
	8	84	152	204	334	0
	9	24	135	199	240	0
	Y	98	152	268	338	0

* Position 1 through 5 inactive for new design, (Ref MIL-STD-1554)

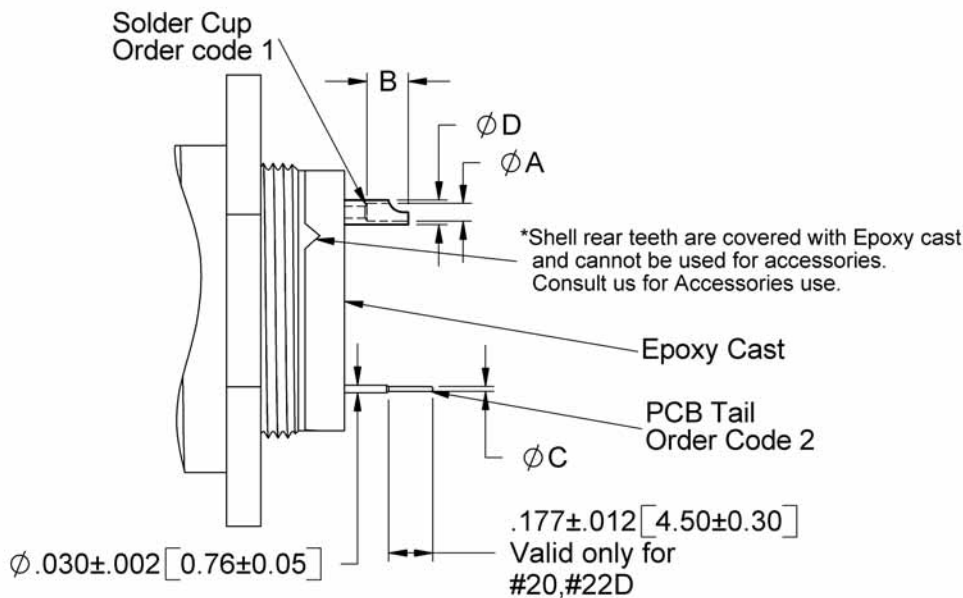
1. In the "normal insert position" (position N), the insert centerline coincides with the centerline of the master keyway of the shell.
2. In the "alternate insert position" (1,2,3,4 & 5), the socket insert is rotated clockwise relative to the centerline of the master keyway as indicated in the figure and chart. The pin insert is rotated counter-clockwise.
3. Alternate polarizing positions 1,2,3,4 & 5 are for interchangeability use only. Not recommended for new design, per MIL-C-83723.
4. In the "alternate keying position" (positions 6,7,8,9 & Y), the keyways are positioned as specified in the "Keying Position" table with respect to the master keyway as shown in the drawing.
5. When the alternate keying position is used, the insert clocking is always in the normal position.

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Termination Types



Termination Dimensions

* For extension dimensions, refer to specific shell table in this catalog – columns H, T.

Contact Size	#22	#20	#16	#12
Ø A ± .002	.043	.043	.074	.114
[+0.05]	[1.10]	[1.10]	[1.90]	[2.90]
B ± .012	.126	.126	.149	4.20
[+0.30]	[3.20]	[3.20]	[3.80]	[.165]
Ø C ± .002	.002	.002	.046	2.06
[+0.05]	[0.05]	[0.05]	[1.16]	.081
Ø D ± .002	.059	.059	.100	3.60
[+0.05]	[1.50]	[1.50]	[2.54]	[.141]

* Consult us regarding special termination lengths and sizes.

Environment Conditions

Description	Values	Paragraph PER			
		ISO 2100	ISO 7137	MIL-STD-1334	MIL-STD-202
Sealing**	<10 ⁻³ cm ³ / Sec at Δ P = 1atm				
Vibration (Random)	Up to 40g RMS 50-2000Hz	12		2005.1	201, 204, 215
Vibration (Sine)	Up to 15g PTP 10-2000Hz	12		2005.1	201, 204, 215
Shock	100g X 11msec		7	2004.1	213
Acceleration	40g	19			
Climactic					103, 106
Temperature	-55°C to +125°C Operating & Storage				
Humidity	Up to 95% @ Storage Temperature range	18b		1002.2	
Altitude	Up to 70,000 ft	18a	4		
Salt Spray		22		1001.1	101
Sand & Dust		23	12		
Contact Endurance	More than 500 Mating cycles	16			

** For hermetically sealed connector, the sealing conditions are <10⁻⁵ cm³ / Sec at Δ P = 1atm

* Dimensions are in inches. Values in brackets are millimeters equivalents.

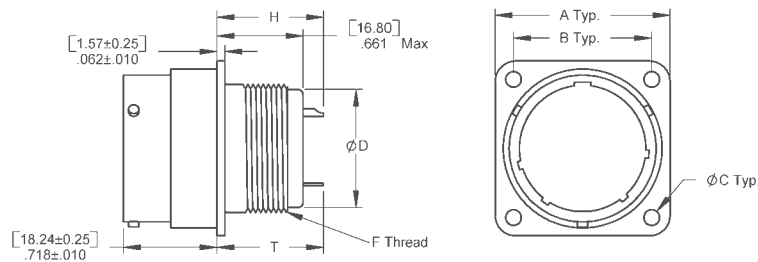
* Dimensions subject to change without prior notice.

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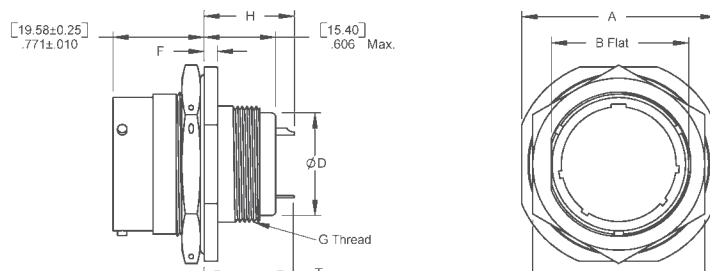
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D3W Wall Mount Receptacle (MS83723 71 & 72 Compatible)



Shell Size	A ± 0.13 [± .005]	B ± 0.13 [± .005]	Ø C ± 0.13 [± .005]	Ø D Max	F Thread	H Max		T ± .028 [± .70]
						#22, #20, #16	#12	
8	.812	.594	.120	.500	1/2-20 UNEF	20.30	.878	.965
	[20.62]	[15.09]	[3.05]	[12.70]		[.799]	[22.30]	[24.51]
10	.937	.719	.120	.625	5/8-20 UNEF	20.30	.878	.965
	[23.80]	[18.26]	[3.05]	[15.86]		[.799]	[22.30]	[24.51]
12	1.031	.812	.120	.750	3/4-20 UNEF	20.30	.878	.965
	[26.19]	[20.62]	[3.05]	[19.05]		[.799]	[22.30]	[24.51]
14	28.58	.906	.120	.875	7/8-20 UNEF	20.30	.878	.965
	[1.125]	[23.01]	[3.05]	[22.23]		[.799]	[22.30]	[24.51]
16	1.250	.969	.120	1.000	1-20 UNEF	20.30	.878	.965
	[31.75]	[24.61]	[3.05]	[25.40]		[.799]	[22.30]	[24.51]
18	1.343	1.062	.120	1.063	1-1/16-18 UNEF	20.30	.878	.965
	[34.11]	[26.97]	[3.05]	[27.00]		[.799]	[22.30]	[24.51]
20	1.437	1.156	.120	1.188	1-3/16-18 UNEF	20.30	.878	.965
	[36.50]	[29.36]	[3.05]	[30.16]		[.799]	[22.30]	[24.51]
22	1.562	1.250	.120	1.313	1-5/16-18 UNEF	20.30	.878	.965
	[39.67]	[31.75]	[3.05]	[33.34]		[.799]	[22.30]	[24.51]
24	1.703	1.375	.149	1.438	1-7/16-18 UNEF	20.30	.878	.965
	[43.26]	[34.93]	[3.78]	[36.51]		[.799]	[22.30]	[24.51]

D3W Wall Mount Receptacle (MS83723 73 & 74 Compatible)



Shell Size	A Max	B Flat	C Max	Ø D Max	F	G Thread	H Max		T ± .028 [± .70]
							#22, #20, #16	#12	
8						1/2-20 UNEF			
10						5/8-20 UNEF			
12						3/4-20 UNEF			
14						7/8-20 UNEF			
16						1-20 UNEF			
18						1-1/16-18 UNEF			
20						1-3/16-18 UNEF			
22						1-5/16-18 UNEF			
24						1-7/16-18 UNEF			

* Dimensions are in inches. Values in brackets are millimeters equivalents.

* Dimensions subject to change without prior notice.

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MIL-C-83723
Series III

This section describes the correlation between the maximum capacitance, the filtered-rated operating voltage and the connector insert arrangement. It also deals with the applicability of the transient protection with each insert arrangement. The tables in the following pages (29-31) summarize this information.

These tables (pages 29-31) can be used in two ways:

- Once a connector family, shell style and an insert arrangement are selected, and using these tables, the capacitance limits and the operating voltage can be extracted, and the transient protection applicability can be determined, all in relation to the selected filter and connector types.
- Once the correct filter and/or transient protection are selected, and using these tables the complying insert arrangement can be determined to meet the design requirements.

Homogenous Rated Operating Voltage Codes

Code	01	02	03	04	05	06	07	08	09	10	11	12	14	15	16	17
WV [V _{DC}]	6.3	10	16	25	50	100	200	250	300	400	500	600	800	1k	1.5k	2k

Combined Rated Operating Voltage Codes

Code	
00	99
For filters with Diversified Working Voltages	For any configuration that incorporates Transient Protection

Note: Fill one of the above-mentioned codes in the relevant sections of the filtered connector P/N.



Content of Section

MIL-C-38999	Page 29
MIL-C-26482/II	Page 30
MIL-C-83723/III	Page 31

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Insert Arrangement Vs. Working Voltage and Maximum Capacitance of the Filter

Transient Protection Applicability		MIL-C-38999/ I & III Insert Arrangement	Filter Type Vs. Working Voltage and Maximum Capacitance				
0.1J	0.3J		C	C ²	L	π	WV
			nF	nF	nF	nF	
Yes	No	09-35, 11-35, 13-35, 15-35 17-02 (#20 contacts & #8 coax contact), 17-35, 19-35, 21-35, 23-35, 25-07, 25-35 and Similar Insert Arrangements of MIL-C-38999/II	1μ	2μ	1μ	2μ	6.3V
			330	660	330	660	10V
			150	300	150	300	16V
			150	300	150	300	25V
			100	200	100	200	50V
			22	44	22	44	100V
			10	20	10	20	200V
			6.8	13.6	6.8	13.6	250V
							300V
							400V
							500V
							600V
							800V
				1KV			
Yes	Yes	09-98, 11-05, 11-98, 13-98, 15-18, 15-19, 15-97 (#20 contacts), 17-02 (#8 PWR contact), 17-26, 19-28 (#20 contacts), 19-32, 21-39 (#20 contacts), 23-53, 23-55, 25-04, 25-46, 25-61 and Similar Insert Arrangements of MIL-C-38999/II	1μ	2μ	1μ	2μ	6.3V
			470	940	470	940	10V
			470	940	470	940	16V
			220	440	220	440	25V
			100	200	100	200	50V
			68	136	68	136	100V
			33	66	33	66	200V
			27	54	27	54	250V
			15	30	15	30	300V
			12	24	12	24	400V
			12	24	12	24	500V
			8.2	16.4	8.2	16.4	600V
			4.7	9.4	4.7	9.4	800V
2.7	5.4	2.7	5.4	1KV			
Yes	Yes	13-04, 15-05 15-97 (#16 contacts), 17-06, 19-28, 21-11, 23-21, 25-29 and Similar Insert Arrangements of MIL-C-38999/II	10μ	20μ	10μ	20μ	6.3V
			4.7μ	9.4μ	4.7μ	9.4μ	10V
			2.2μ	4.4μ	2.2μ	4.4μ	16V
			1μ	2μ	1μ	2μ	25V
			470	940	470	940	50V
			180	360	180	360	100V
			100	200	100	200	200V
			68	136	68	136	250V
			47	94	47	94	300V
			27	54	27	54	400V
			33	66	33	66	500V
			18	36	18	36	600V
			10	20	10	20	800V
6.8	13.6	6.8	13.6	1KV			
2.2	4.4	2.2	4.4	1.5KV			
1.5	3	1.5	3	2KV			
Yes	Yes	21-75 and Similar Insert Arrangements of MIL-C-38999/II	10μ	20μ	10μ	20μ	6.3V
			4.7μ	9.4μ	4.7μ	9.4μ	10V
			2.2μ	4.4μ	2.2μ	4.4μ	16V
			1μ	2μ	1μ	2μ	25V
			1μ	2μ	1μ	2μ	50V
			330	660	330	660	100V
			180	360	180	360	200V
			120	240	120	240	250V
			82	164	82	164	300V
			68	136	68	136	400V
			68	136	68	136	500V
			39	78	39	78	600V
			27	54	27	54	800V
18	36	18	36	1KV			
6.8	13.6	6.8	13.6	1.5KV			
6.8	13.6	6.8	13.6	2KV			

MIL-C-38999
Series I, III

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Insert Arrangement Vs. Working Voltage and Maximum Capacitance of the Filter

Transient Protection Applicability		MIL-C-38999/ I & III Insert Arrangement	Filter Type Vs. Working Voltage and Maximum Capacitance				
0.1J	0.3J		C	C ²	L	π	WV
			nF	nF	nF	nF	
Yes	Yes	08-98, 08-33, 10-06, 12-08, 12-10, 14-12 (#20 contacts) 14-15 (#20 contacts) 14-18, 14-19, 16-26, 18-32, 20-39 (#20 contacts) 20-41, 22-55, 24-61	1μ	2μ	1μ	2μ	6.3V
			470	940	470	940	10V
			470	940	470	940	16V
			220	440	220	440	25V
			100	200	100	200	50V
			68	136	68	136	100V
			33	66	33	66	200V
			27	54	27	54	250V
			15	30	15	30	300V
			12	24	12	24	400V
			12	24	12	24	500V
			8.2	16.4	8.2	16.4	600V
			4.7	9.4	4.7	9.4	800V
			2.7	5.4	2.7	5.4	1KV
			Yes	Yes	12-03, 14-05 14-12 (#16 contacts) 14-15 (#16 contacts) 16-08, 18-08, 18-11, 20-16 20-39 (#16 contacts), 22-21, 24-19, 24-31	10μ	20μ
4.7μ	9.4μ	4.7μ				9.4μ	10V
2.2μ	4.4μ	2.2μ				4.4μ	16V
1μ	2μ	1μ				2μ	25V
470	940	470				940	50V
180	360	180				360	100V
100	200	100				200	200V
68	136	68				136	250V
47	94	47				94	300V
27	54	27				54	400V
33	66	33				66	500V
18	36	18				36	600V
10	20	10				20	800V
6.8	13.6	6.8				13.6	1KV
2.2	4.4	2.2				4.4	1.5KV
1.5	3	1.5	3	2KV			
Yes	Yes	14-04	10μ	20μ	10μ	20μ	6.3V
			4.7μ	9.4μ	4.7μ	9.4μ	10V
			2.2μ	4.4μ	2.2μ	4.4μ	16V
			1μ	2μ	1μ	2μ	25V
			1μ	2μ	1μ	2μ	50V
			330	660	330	660	100V
			180	360	180	360	200V
			120	240	120	240	250V
			82	164	82	164	300V
			68	136	68	136	400V
			68	136	68	136	500V
			39	78	39	78	600V
			27	54	27	54	800V
			18	36	18	36	1KV
			6.8	13.6	6.8	13.6	1.5KV
6.8	13.6	6.8	13.6	2KV			

MIL-C-26482 Series II

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MIL-C-83723/III

Insert Arrangement vs. Working Voltage and Maximum Capacitance of the Filter

Transient Protection Applicability		MIL-C-83723/III Insert Arrangement	Filter Type vs Working Voltage and Maximum Capacitance				
0.1J	0.3J		C	C ²	L	TT	WV
			nF	nF	nF	nF	
Yes	Yes	08-03, 08-98, 10-05, 10-06, 12-12, 14-15, 16-24, 18-31, 20-28, 20-41, 22-55, 24-61	1 μ	2 μ	1 μ	2 μ	6.3V
			470	940	470	940	10V
			470	940	470	940	16V
			220	440	220	440	25V
			100	200	100	200	50V
			68	136	68	136	100V
			33	66	33	66	200V
			27	54	27	54	250V
			15	30	15	30	300V
			12	24	12	24	400V
			12	24	12	24	500V
			8.2	16.4	8.2	16.4	600V
			4.7	9.7	4.7	9.7	800V
			2.7	5.4	2.7	5.4	1KV
			Yes	Yes	14-07, 16-10, 18-08, 18-14, 20-16, 22-19	10 μ	20 μ
4.7 μ	9.4 μ	4.7 μ				9.4 μ	10V
2.2 μ	4.4 μ	2.2 μ				4.4 μ	16V
1 μ	2 μ	1 μ				2 μ	25V
470	940	470				940	50V
180	360	180				360	100V
100	200	100				200	200V
68	136	68				136	250V
47	94	47				94	300V
27	54	27				54	400V
33	66	33				66	500V
18	36	18				36	600V
18	36	18				36	800V
6.8	13.6	6.8				13.6	1KV
2.2	4.4	2.2				4.4	1.5KV
1.5	3	1.5	3	2KV			
Yes	Yes	10-02, 10-20, 12-03, 14-04, 22-12,	10 μ	20 μ	10 μ	20 μ	6.3KV
			4.7 μ	9.4 μ	4.7 μ	9.4 μ	10V
			2.2 μ	4.4 μ	2.2 μ	4.4 μ	16V
			1 μ	2 μ	1 μ	2 μ	25V
			1 μ	2 μ	1 μ	2 μ	50V
			330	660	330	660	100V
			180	360	180	360	200V
			120	240	120	240	250V
			82	164	82	164	300V
			68	136	68	136	400V
			68	136	68	136	500V
			39	78	39	78	600V
			27	54	27	54	800V
			18	36	18	36	1KV
			6.8	13.6	6.8	13.6	1.5KV
6.8	13.6	6.8	13.6	2KV			

MIL-C-83723
Seite 5 III

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