



訂購編號 ORDERING INFORMATION

XMS 38999 / 20 W B - 35 P A

① ② ③ ④ ⑤ ⑥ ⑦

- ① 系列名稱 Series **XMS** Series III 38999
- ② 連接器類型 Connector Type
20 方形法蘭插座 Square Flange Receptacle
24 螺母鎖緊插座 Jam Nut Receptacle
26 直型插頭 Straight Plug
- ③ 外殼表面處理 Shell Finish
W - 橄欖綠鍍鎳 Olive Drab Cadmium Plating
F - 鍍化學鎳 Electroless Nickel Plating
K - 不銹鋼鈍化 Stainless Steel Passivated
- ④ 殼體規格 Shell Size
- ⑤ 觸點排布 Contact Arrangements
- ⑥ 觸點類型 Contact Type
P - 壓接公針 Crimp Pin
S - 壓接母針 Crimp Socket
PH - 焊接公針 Solder Pin
SH - 焊接母針 Solder Socket
PL - 長PCB公針 Long PCB Pin
PC - 短PCB公針 Short PCB Pin
SL - 長PCB母針 Long PCB Socket
SC - 短PCB母針 Short PCB Socket
- ⑦ 插芯定位 Alternate Insert Position
 空白 (標準) 或 **A/B/C/D** Blank (Standard) or **A/B/C/D**

服務等級 Service Rating

服務等級 Service Rating	M	I	II	N
Sea Level	1300V	1800V	2300V	1000V
21000 m	800V	1000V	1000V	600V

觸點規格 Contact Data

針號 Contact Size	直徑 Diameter (mm)	阻抗 Resistance (mΩ)	電流 Current (A)
#22D	Φ0.76	≤12.0	5.0
#20	Φ1.00	≤5.0	7.5
#16	Φ1.60	≤2.5	13.0
#12	Φ2.40	≤1.5	23.0

特點 Features

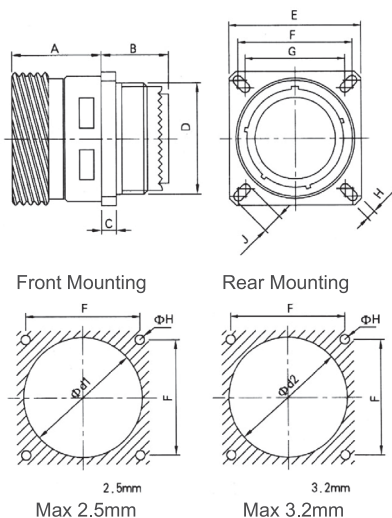
- 符合MIL-DTL-38999 系列III 設計規範，小型高密度軍規連接器
- 三頭螺紋耦合防震動設計
- 電磁干擾屏蔽防護達到65 dB @ 10GHz
- 銅合金車銑鍍金壓接針
- Meeting MIL-DTL-38999, Series III requirements, miniature, high density MS connectors
- Triple Start thread coupling system for vibration/shock resistance applications
- Superior EMI shielding for protection up to 65 dB at 10GHz
- Gold-plated, copper alloy machined, rear-release crimp pins and close-end sockets.

插芯觸點規格 Insert Contact Data

殼體規格 Shell Size	插芯編號 Insert No.	服務等級 Service Rating	芯數 Poles	觸點規格 Contact Size
A (9)	9-35	M	6	6 #22D
	9-98	I	3	3 #20
	11-4	I	4	4 #20
B (11)	11-5	I	5	5 #20
	11-35	M	13	13 #22D
	11-98	I	6	6 #20
C (13)	13-4	I	4	4 #16
	13-8	I	8	8 #20
	13-35	M	22	22 #22D
	13-98	I	10	10 #20
D (15)	15-5	II	5	5 #16
	15-15	I	15	14 #20, 1 #16
	15-18	I	18	18 #20
	15-19	I	19	19 #20
	15-35	M	37	37 #22D
	15-97	I	12	8 #20, 4 #16
E (17)	17-6	I	6	6 #12
	17-8	II	8	8 #16
	17-26	I	28	26 #20, 2 #16
	17-35	M	55	55 #22D
F (19)	17-99	I	23	21 #20, 2 #16
	19-11	II	11	11 #16
	19-18	M	18	14 #22D, 4 #8 Twinax
	19-28	M	28	26 #20, 2 #16
	19-30	I	30	29 #20, 1 #16
G (21)	19-32	I	32	32 #20
	19-35	M	66	66 #22D
	21-11	I	11	11 #12
	21-16	II	16	16 #16
	21-25	I	25	25 #20
	21-27	I	27	27 #20
	21-35	M	79	79 #22D
	21-39	I	39	37 #20, 2 #16
H (23)	21-41	I	41	41 #20
	23-21	II	21	21 #16
	23-32	I	32	32 #20
	23-34	I	34	34 #20
	23-35	M	100	100 #22D
	23-53	I	53	53 #20
	23-55	I	55	55 #20
	23-97	II	16	16 #16
	23-99	II	11	11 #16
J (25)	25-2	M	100	100 #22
	25-4	I	56	48 #20, 8 #16
	25-11	N	11	2 #20, 9 #10
	25-19	I	19	19 #12
	25-24	I	24	12 #16, 12 #12
	25-29	I	29	29 #16
	25-43	I	43	23 #20, 20 #16
	25-61	I	61	61 #20

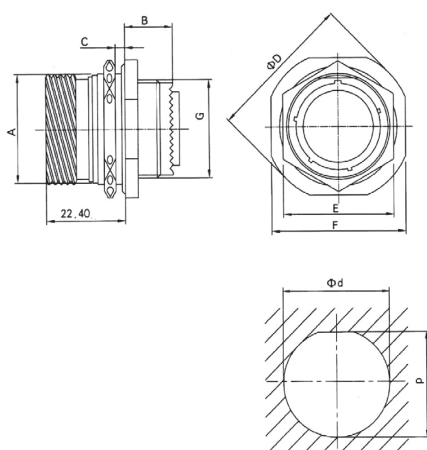
連接器型式 Connector Types

XMS38999/20 方形法蘭插座 Square Flange Receptacle



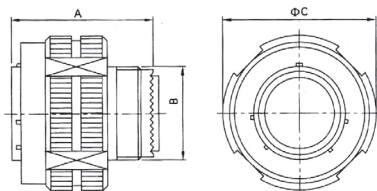
Shell Size	A (Max)	B (Max)	C (Max)	D Thread	E	F	G	H	J	d1 (Min)	d2 (Min)
A (9)	20.90	10.80	2.50	M12*1-6g	23.80	18.26	15.09	3.25	5.49	16.66	13.11
B (11)	20.90	10.80	2.50	M15*1-6g	26.20	20.62	18.26	3.25	4.93	20.22	15.88
C (13)	20.90	10.80	2.50	M18*1-6g	28.60	23.01	20.62	3.25	4.93	23.42	19.05
D (15)	20.90	10.80	2.50	M22*1-6g	31.00	24.61	23.01	3.25	4.39	26.59	23.01
E (17)	20.90	10.80	2.50	M25*1-6g	33.30	26.97	24.61	3.25	4.93	30.96	25.81
F (19)	20.90	10.80	2.50	M28*1-6g	36.50	29.36	26.97	3.25	4.93	32.94	28.98
G (21)	20.10	11.50	3.20	M31*1-6g	39.70	31.75	29.36	3.25	4.93	36.12	32.16
H (23)	20.10	11.50	3.20	M34*1-6g	42.90	34.93	31.75	3.91	6.15	39.29	34.93
J (25)	20.10	11.50	3.20	M37*1-6g	46.00	38.10	34.93	3.91	6.15	42.47	37.69

XMS38999/24 螺母鎖緊插座 Jam Nut Receptacle



Shell Size	A	B (Max)	C (Max)	D (Max)	E (Max)	F	Thread G	d	p
A (9)	16.50	9.90	3.20	30.50	22.50	27.10	M12 × 1.0-6g	17.70	16.99
B (11)	19.30	9.90	3.20	35.20	25.70	32.10	M15 × 1.0-6g	20.88	19.53
C (13)	24.00	9.90	3.20	38.40	30.50	35.00	M18 × 1.0-6g	25.58	24.26
D (15)	27.20	9.90	3.20	41.60	33.60	38.30	M22 × 1.0-6g	28.80	27.53
E (17)	30.40	9.90	3.20	44.80	36.80	41.80	M25 × 1.0-6g	31.98	30.68
F (19)	33.40	9.90	3.20	49.30	40.00	46.40	M28 × 1.0-6g	35.15	33.86
G (21)	36.50	9.90	3.20	52.70	43.20	49.60	M31 × 1.0-6g	38.28	37.06
H (23)	39.70	9.90	3.20	55.90	46.30	52.80	M34 × 1.0-6g	41.50	40.24
J (25)	42.80	9.90	3.20	59.00	51.00	55.80	M37 × 1.0-6g	44.68	43.41

XMS38999/26 直型插頭 Shielding Plug



Shell Size	A (Max)	B Thread	C (Max)
A (9)	31.00	M12 × 1.0-6g	21.50
B (11)	31.00	M15 × 1.0-6g	25.00
C (13)	31.00	M18 × 1.0-6g	29.20
D (15)	31.00	M22 × 1.0-6g	32.40
E (17)	31.00	M25 × 1.0-6g	35.60
F (19)	31.00	M28 × 1.0-6g	38.50
G (21)	31.00	M31 × 1.0-6g	41.70
H (23)	31.00	M34 × 1.0-6g	44.90
J (25)	31.00	M37 × 1.0-6g	48.00

觸點排布 Contact Arrangements List

觸點圖示 Contact Icon		#22D	#20	#16	#12	圖示為從公插芯的前面看或從母插芯的背面看 Front view of pin insert or rear of socket insert illustrated					
Insert No.	9-35	9-98	11-4	11-5	11-35	11-98		13-4	13-8	13-35	13-98
Contact Size	6 #22D	3 #20	4 #20	5 #20	13 #22D	6 #20		4 #16	8 #20	22 #22D	10 #20
Service Rating	M	I	I	I	M	I		I	I	M	I
Insert No.	15-5	15-15	15-18	15-19	15-35	15-97		17-6	17-8		
Contact Size	5 #16	14 #20, 1 #16	18 #20	19 #20	37 #22D	8 #20, 4 #16		6 #12	8 #16		
Service Rating	II	I	I	I	M	I		I	II		
Insert No.	17-26	17-35	17-99		19-11	19-18	19-28				
Contact Size	26 #20	55 #22D	21 #20, 2 #16		11 #16	14 #22D, 4 #8 Twinax	26 #20, 2 #16				
Service Rating	I	M	I		II	M	M				
Insert No.	19-30	19-32	19-35		21-11	21-16					
Contact Size	29 #20, 1 #16	32 #20	66 #22D		11 #12	16 #16					
Service Rating	I	I	M		I	II					
Insert No.	21-25	21-27	21-35	21-39	21-41						
Contact Size	25 #20	27 #20	79 #22D	37 #20, 2 #16	41 #20						
Service Rating	I	I	M	I	I						
Insert No.	23-21	23-32	23-34	23-35							
Contact Size	21 #16	32 #20	34 #20	100 #22D							
Service Rating	II	I	I	M							
Insert No.	23-53	23-55	23-97	23-99							
Contact Size	53 #20	55 #20	16 #16	11 #16							
Service Rating	I	I	II	II							

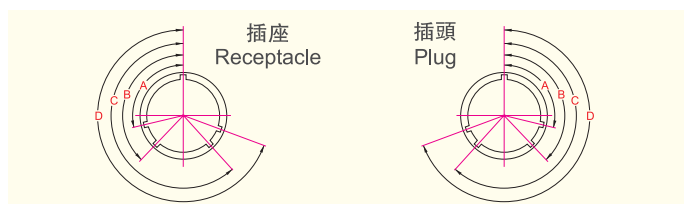
觸點排布 Contact Arrangements List

Insert No.	25-2	25-4	25-11	25-19	
Contact Size	100 #22	48 #20, 8 #16	2 #20, 9 #10	19 #12	
Service Rating	M	I	N	I	
Insert No.	25-24	25-29	25-43	25-61	
Contact Size	12 #16, 12 #12	29 #16	23 #20, 20 #16	61 #20	
Service Rating	I	I	I	I	

插芯定位 Alternate Insert Positioning

在應用過程中，為避免相同規格的連接器誤插，需要應用不同插芯旋向的連接器，如附圖所示：從下圖可以看出，外殼裏面插芯的分布旋轉了不同的角度。

In the application process, we provide different alternate insert positions for different mating combinations. The diagrams show the front insert view of the polarization



Shell Size	Angle	N	A	B	C	D	E
A (9)	A°	105	102	80	35	64	91
	B°	140	132	118	140	155	131
	C°	215	248	230	205	234	197
	D°	265	320	312	275	304	240
B (11) C (13) D (15)	A°	95	113	90	53	119	51
	B°	141	156	145	156	146	141
	C°	208	182	195	220	176	184
	D°	236	292	252	255	298	242
E (17) F (19)	A°	80	135	49	66	62	79
	B°	142	170	169	140	145	153
	C°	196	200	200	200	180	197
	D°	293	310	244	257	280	272
G (21) H (23) J (25)	A°	80	135	49	66	62	79
	B°	142	170	169	140	145	153
	C°	196	200	200	200	180	197
	D°	293	310	244	257	280	272