QPL QUALIFIED

MIL-DTL-38999 Series III, Triple-Start Thread

D38999/21 box mount hermetic receptacle

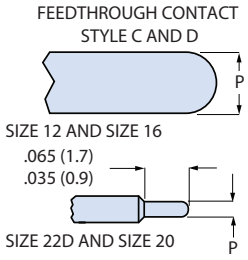
QPL Part Number Development

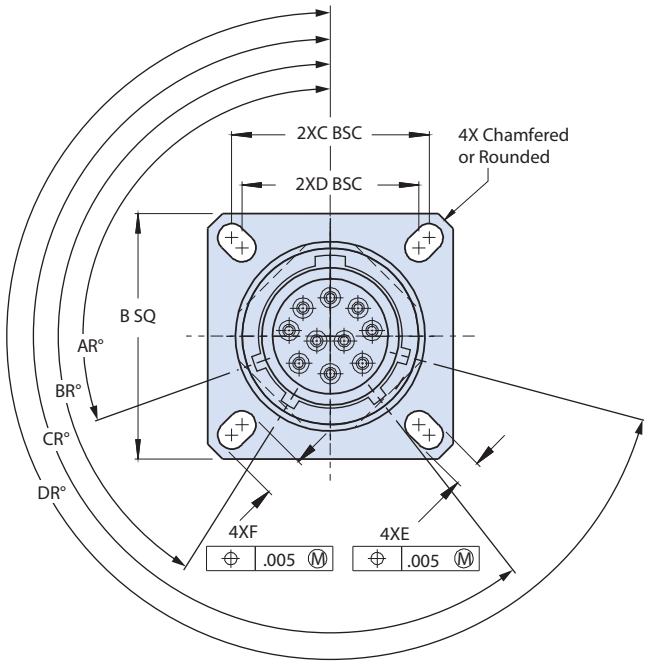
Sample Part Number	D38999/21	Y	B	35	P	N

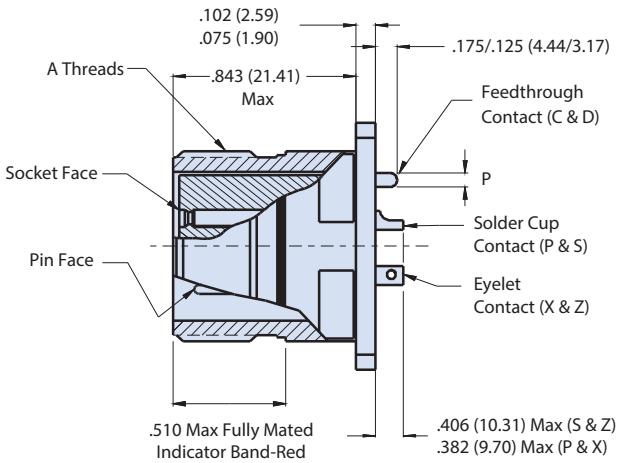
MIL-DTL-38999	**D38999/21** = Box mount receptacle
Class	**N** = Hermetic, CRES, nickel finish, conductive, -65°C to 200°C **Y** = Hermetic, CRES, passivate finish, conductive, -65°C to 200°C **H** = Hermetic, CRES, passivate finish, conductive, -65°C to 200°C (space grade)
Shell Size Code	**A**, **B**, **C**, **D**, **E**, **F**, **G**, **H** and **J** (per MIL-STD-1560)
Insert Arrangement	Per MIL-STD-1560; See reference information section for details
Contact Type	**P** = Pin, solder cup; **X** = Pin, eyelet; **C** = Pin, PCB flex feedthrough **S** = Socket, solder cup; **Z** = Socket, eyelet; **D** = Socket, PCB flex feedthrough
Alternate Polarization	**A**, **B**, **C**, **D**, **E**, **N** = Normal

Contact Size

Size	ø P
22D	.015 (0.38) .011 (0.28)
20	.028 (0.71) .024 (0.61)
16	.0635 (1.61) .0615 (1.56)
12	.095 (2.41) .093 (2.36)







Wire Accommodation

Contact Size	Wire Gauge
22D	#22 - #28
20	#20 - #24
16	#16 - #20
12	#12 - #14

NOTES

- The 239-204 and AS85049/130 have the same dimensions
- Basic Specification D38999 "Flange gasket not provided with connector. Use gasket 239-204 and select appropriate material"

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Dimensions in inches (millimeters) are subject to change without notice

COTS EQUIVALENT

MIL-DTL-38999 Series III, Triple-Start Thread

233-100-H2 box mount hermetic receptacle

COTS Part Number Development						
Sample Part Number	**233-100-H2**	**Z1**	**11**	**-35**	**P**	**N**

Series / Basic Part No.	**233-100-H2** = Hermetic, box mount receptacle
Material/Finish*	**ZL** = CRES, nickel finish, conductive, -65°C to 200°C **Z1** = CRES, passivate finish, conductive, -65°C to 200°C **Z1S** = Hermetic, CRES, passivate finish, conductive, -65°C to 200°C (space grade)
Shell Size	**9**, **11**, **13**, **15**, **17**, **19**, **21**, **23**, **25**
Insert Arrangement	Per MIL-STD-1560; See reference information section for details
Contact Type	**P** = Pin, solder cup **X** = Pin, eyelet **C** = Pin, PCB flex feedthrough **S** = Socket, solder cup **Z** = Socket, eyelet **D** = Socket, PCB flex feedthrough
Alternate Polarization	**A**, **B**, **C**, **D**, **E**, **N** (Normal),

Additional material/finish options are available, consult factory for ordering information.

Dimensions

Shell Size Code	Shell Size	A Thread .1P-.3L-TS-2A	B Sq ±.012	C Bsc	D Bsc	E ±.008	F ±.008
A	9	.6250	.937 (23.80)	.719 (18.26)	.594 (15.09)	.128 (3.25)	.216 (5.49)
B	11	.7500	1.031 (26.19)	.812 (20.62)	.719 (18.26)	.128 (3.25)	.194 (4.93)
C	13	.8750	1.126 (28.60)	.906 (23.01)	.812 (20.62)	.128 (3.25)	.194 (4.93)
D	15	1.0000	1.220 (30.99)	.969 (24.61)	.906 (23.01)	.173 (4.39)	.173 (4.39)
E	17	1.1875	1.311 (33.30)	1.062 (26.97)	.969 (24.61)	.128 (3.25)	.194 (4.93)
F	19	1.2500	1.437 (36.50)	1.156 (29.36)	1.062 (26.97)	.128 (3.25)	.194 (4.93)
G	21	1.3750	1.563 (39.70)	1.250 (31.75)	1.156 (29.36)	.128 (3.25)	.194 (4.93)
H	23	1.5000	1.689 (42.90)	1.375 (34.92)	1.250 (31.75)	.154 (3.91)	.242 (6.15)
J	25	1.6250	1.811 (46.00)	1.500 (38.10)	1.375 (34.92)	.150 (3.81)	.242 (6.15)

Series III Alternate Keyway Polarizations

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

Additional Material/Finish Options

Finish Code	Description
Z1S†	CRES, passivate finish, conductive, -65°C to 200°C, space-grade

† Connectors ordered with "Z1S" include outgas processing to conform to outgassing requirements of Class H.

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