

# QPL QUALIFIED

## MIL-DTL-38999 Series IV, Breech Coupling

### 38999/45 solder mount receptacle



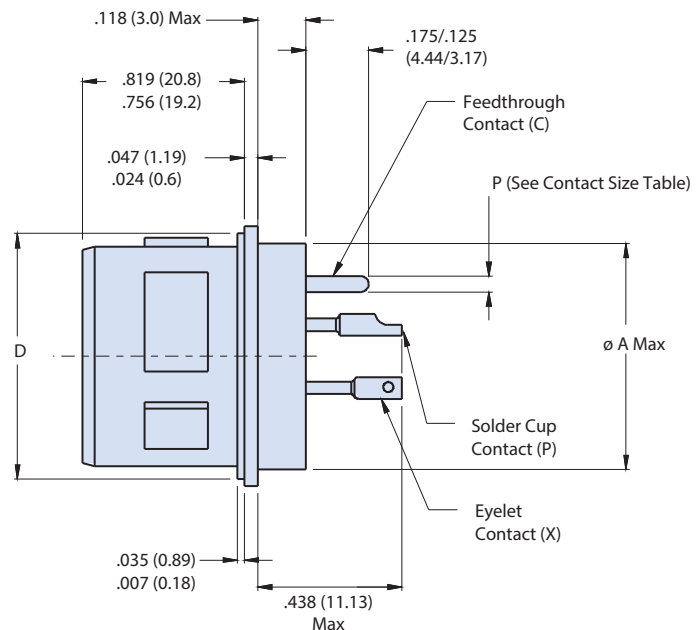
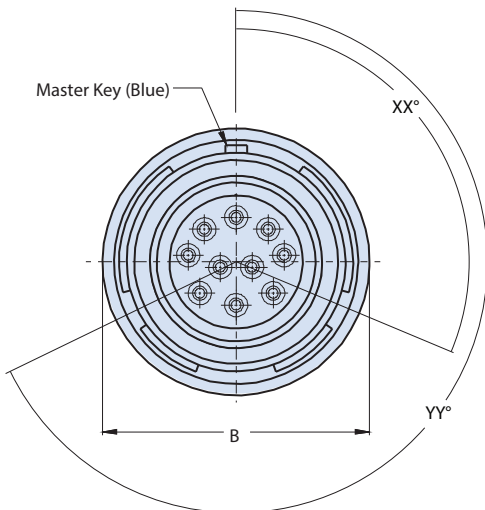
SERIES IV HERMETIC

QPL Part Number Development						
Sample Part Number	D38999/45		Y	B	35	P N
D38999	38999/45 = Solder 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					
Shell Size	B, C, D, E, F, G, H, J					
Insert Arrangement	Per MIL-STD-1560; See reference information section for details					
Contact Style	P = Pin, solder cup S = Socket, solder cup		X = Pin, eyelet Z = Socket, eyelet		C = Pin, PCB flex feedthrough D = Socket, PCB flex feedthrough	
Polarization	N (Normal), A, B, C, D, K, L, M, R; see polarization positions table					



Polarization Position									
	N	A	B	C	D	K	L	M	R
XX	110°	100°	90°	80°	70°	120°	120°	120°	120°
YY	250°	260°	270°	280°	290°	255°	265°	275°	285°

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



# COTS EQUIVALENT MIL-DTL-38999 Series IV, Breech Coupling 234-100-H5 solder mount receptacle



SERIES IV HERMETIC

COTS Part Number Development						
<b>Sample Part Number</b>	<b>234-100-H5</b>	<b>Z1</b>	<b>11</b>	<b>-35</b>	<b>P</b>	<b>N</b>
<b>Series / Basic Part No.</b>	<b>234-100-H5</b> = Hermetic, solder mount receptacle					
<b>Material/Finish</b>	<b>ZL</b> = CRES, nickel finish, conductive, -65°C to 200°C <b>Z1</b> = CRES, passivate finish, conductive, -65°C to 200°C					
<b>Shell Size</b>	<b>11, 13, 15, 17, 19, 21, 23, 25</b>					
<b>Insert Arrangement</b>	Per MIL-STD-1560; See reference information section for details					
<b>Contact Style</b>	<b>P</b> = Pin, solder cup <b>S</b> = Socket, solder cup		<b>X</b> = Pin, eyelet <b>Z</b> = Socket, eyelet		<b>C</b> = Pin, PCB flex feedthrough <b>D</b> = Socket, PCB flex feedthrough	
<b>Polarization</b>	<b>N</b> (Normal), <b>A, B, C, D, K, L, M, R</b> see polarization position position table					

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

Contact Size	
<p>FEEDTHROUGH CONTACT STYLE C AND D</p> <p>SIZE 12 AND SIZE 16 .050 ± .015 (1.27 ± 0.38)</p> <p>SIZE 22D AND SIZE 20</p>	
Contact Size	ø P
22D	.011 (0.28) .015 (0.38)
20	.024 (0.61) .028 (0.71)
16	.0635 (1.61) .0615 (1.56)
12	.095 (2.41) .093 (2.36)

Dimensions					
SHELL SIZE CODE	SHELL SIZE	ø A MAX	ø B MAX	ø C	D
B	11	.783(19.9)	.862(21.9)	.794 (20.17) .784 (19.91)	.793(20.1) .778(19.8)
C	13	.909(23.1)	.988(25.1)	.920 (23.37) .910 (23.11)	.919(23.3) .904(23.0)
D	15	1.035(26.3)	1.110(28.2)	1.046 (26.57) 1.036 (26.31)	1.044(26.5) 1.028(26.1)
E	17	1.157(29.4)	1.236(31.4)	1.169 (29.71) 1.159 (29.44)	1.170(29.7) 1.155(29.3)
F	19	1.252(31.8)	1.331(33.8)	1.263 (32.08) 1.253 (31.83)	1.294(32.9) 1.279(32.5)
G	21	1.378(35.0)	1.457(37.0)	1.389 (35.28) 1.379 (35.03)	1.419(36.0) 1.404(35.7)
H	23	1.504(38.2)	1.583(40.2)	1.515 (38.48) 1.505 (38.23)	1.544(39.2) 1.528(38.8)
J	25	1.630(41.4)	1.705(43.3)	1.642 (41.71) 1.632 (41.45)	1.670(42.4) 1.654(42.0)

Additional Material/Finish Options	
Finish Code	Description
Z1†	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.

