

Designation

D38999/20 & D38999/24

Sealed receptacles with straight spill terminals for PCB soldering

Drawing No: N/A

Drawn by: MR

Drawing Revision: 2

Part Number Revision: N/A

Date: 09/06/2020

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Elimec Part Number: EL-320/ EL-324

Customer Use Drawing

Customer Part Number: N/A

 Part Number Example: EL-3 20 W 9 35 P N-PT 5.0 x 0.5 -*

Series

* = Sealing level

Order Number per Table 4 (page 2)

See dimensions B x A in table 3.

Shell type	Class (Material and finish)	Shell Size	Insert Arrangement	Contact Style	Polarization
320- Square Flange receptacle	F- Aluminum shell, electroless nickel finish	9	Mil STD 1560	S- Socket P- Pin	N- Normal A,B,C,D or E for alternatives
	W- Aluminum shell, cadmium olive drab finish	11			
324- Jam Nut receptacle	K- Stainless steel shell, passivated, firewall insert (RoHS)	13			
	S- Stainless steel shell, Nickel, firewall insert	15			
	BZ- Aluminum nickel bronze shell, standard insert	17			
	Z- Aluminum, Black Zinc Nickel, (RoHS)	19			
		21			
	23				
	25				

 Mode: PT L2 x D -* without grommet and back filled with sealant.

Table 1

Elimec P/N	Shell size	Contact	L1(±0.4)
EL-324	9(A) to 19(F)	Pin and socket	9.85
EL-324	21(G) to 25(J)	Pin and socket	9.85

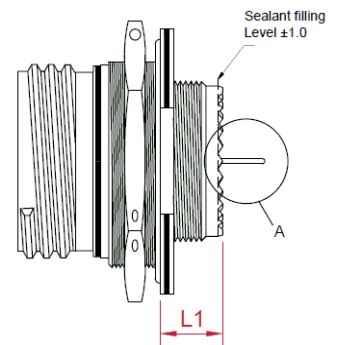
 Jam Nut
 EL-324 (D38999/24)


Table 2

Elimec P/N	Shell size	Contact	L1(±0.4)
EL-320	9(A) to 19(F)	Pin and socket	10.55
EL-320	21(G) to 25(J)	Pin and socket	11.35

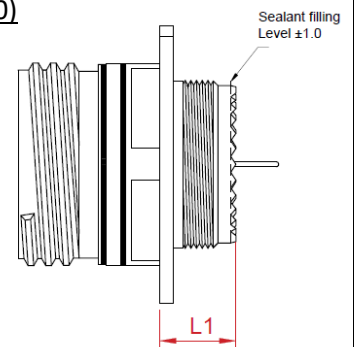
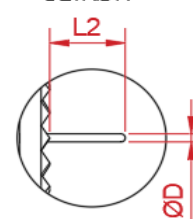
 Square Flange
 EL-320 (D38999/20)


Table 3: B x A

Contact size	L2(±1.0)	D (±0.05)
22D	5.0 or 8.5	0.5 or 0.7
20	5.0 or 8.5	0.5 or 0.7
16		
12		

DETAIL A



Notes:

- For qpl D38999 connectors is marked with the generic military p/n: D38999/2XXXXXA/BX
According to MIL-DTL-38999 when non-standard contacts are installed in a connector instead of the standard contacts -code A (for special male pins) and code B (for special socket contacts) should be marked on the connectors.
- For Bronze connectors (class BZ) is marked with the generic p/n of the specific manufacturer .
RB for Amphenol / BZ for Aero Electric / B for Deutsch (TE)
- Other tail dimensions and shell configurations are available on request.



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Table 4

Sealing level

* Order Number	Test Description
3	0.3 atm. (4.4 PSI) air pressure, 5 min
5	0.5 atm. (7.3 PSI) air pressure, 5 min
7	0.7 atm. (10 PSI) air pressure, 5 min
G	<p>THE LEAKAGE TEST SHALL BE PERFORMED AT ROOM TEMPERATURE, AFTER 4 CYCLES OF 140 MINUTES EACH AS DESCRIBED IN THE TEMPERATURE CYCLE DIAGRAM BELOW. TIME DURATION IN EACH EXTREME IS 30 MINUTES AND THE RATE IS 3 C/MIN.</p> <p>LEAK EXAMINATION: THE INTERNAL PRESSURE SHALL NOT DROP BY MORE THAN 0.2 PSI AFTER 120MIN PRESSURED INITIALLY TO 4.5 PSI ± 0.5 PSI. AN ALTERNATIVE SHORT TEMS MAY BE PERFORMED IF USING A SENSITIVE PRESSURE GAUAGE (SENSITIVITY BETTER THAN 0.01 PSI). VERIFY THAT THE PRESSURE DOES NOT DROP MORE THAN 0.025 PSI AFTER 15MIN.</p> <p>(DESCRIBED ABOVE TEST EQUAL TO LEAK RATE <math> < 1.10^{-5}</math> atm.cm³ /s (HELIUM GAS TEST)).</p>

Temperature Cycle

