

MABAC Threaded & Bayonet Series with PCB Contacts

Description

A compact solution

- The smallest connector available (shell size 3)
- Miniaturization of MIL-DTL-38999 Series I & Series III
- Stands off on sizes 5 & 7

A versatile solution

- 3 shells sizes: 3, 5, 7
- 2 coupling types: threaded (T Series) and bayonet(B Series)
- 3 platings
- Contacts #22D & #26
- 6 keyway orientations

Harsh environment-resistant solution

- Cavity to cavity sealed with interfacial seal and grommet
- Fluid resistant



Technical Features:

Materials

Shell: Aluminum alloy

Shell plating: Z: Zinc nickel (RoHS) W: Nickel (RoHS) F: Olive drab cadmium

- Insulator: Thermoplastic
- Contact body: Copper alloy
- Contacts plating: Gold over nickel plated
- Shell endurance: 500 mating cycles

Electrical

- Test voltage (at sea level): Size 22D: 1000 Vrms Size 26: 400 Vrms
- Contact resistance: Size 22D: <14.6 m Ω Size 26: <16 m Ω
- Contact rating: Size 22D: 5A Size 26: 3A
- Shell to shell continuity (typical value)

Series	Shell size	Aluminum	Stainless steel	
т	N/A non ratcheted coupling			
•	5, 7	10 mΩ	60 mΩ	
В	3, 5, 7	250 mΩ	250 mΩ	

Threaded (T) Series: -70 dB @ 1GHz Bayonet (B) Series: -55 dB @ 1Ghz

Environmental

- Temperature range: -55°C to +175°C
- Water immersion: IP 67 on mated connector 1 meter for 30 min minimum
- Hermeticity: 10-4 atm.cm3/s
 - Salt spray: Zinc nickel: 500 hours Nickel: 48 hours Olive drab cadmium: 500 hours

Resistance to fluids

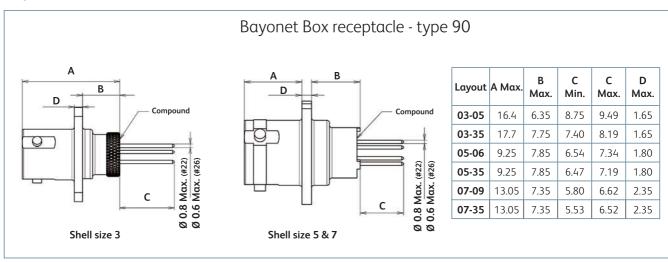
- According to MIL-DTL-38999 standard Gasoline: JP5 (OTAN F44) Mineral hydraulic fluid: MIL-H-5606 (OTAN H515) Synthetic hydraulic fluid: Skydrol 500 B4
- Compatible with de-icing fluids containing potassium acetate

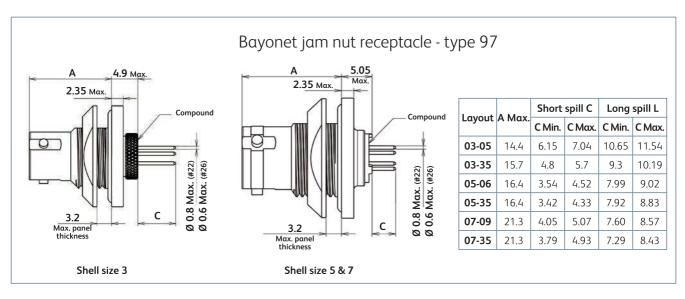


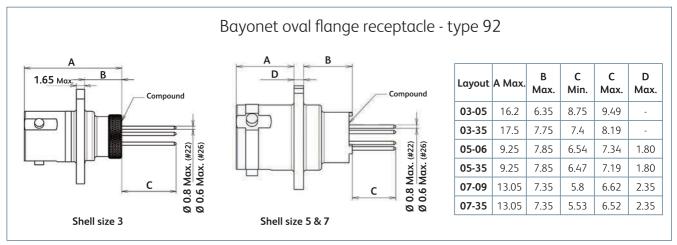
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Bayonet B Series Dimensions







Note: All dimensions are in millimeters (mm). Shell design vary according to shell size. For L contact (long PC tail) please consult us.

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability.

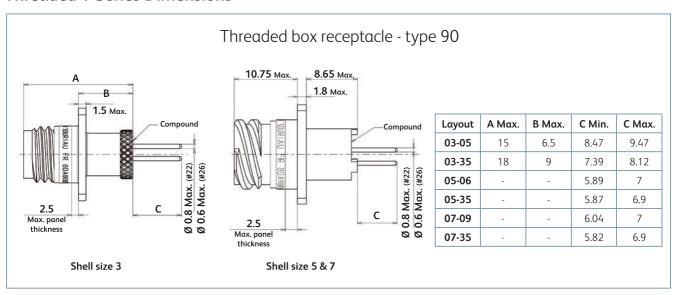
All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

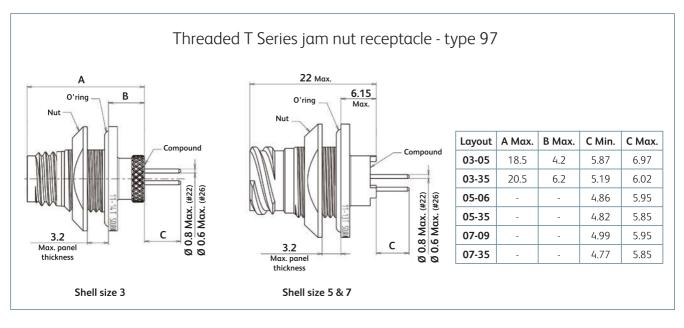


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Threaded T Series Dimensions





Note: All dimensions are in millimeters (mm). Shell design vary according to shell size. For L contact (long PC tail) please consult us.

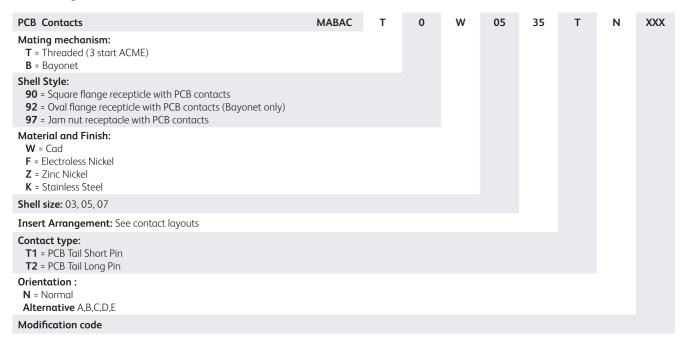




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Ordering information



Note: All dimensions are in millimeters (mm). Shell design vary according to shell size. For L contact (long PC tail) please consult us.





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Contact layouts

Threaded (T Series) and Bayonet (B Series) PCB hole drilling and position information Note: For information only.







Ctc	х	Y	
1	0.00	1.45	
2	-1.38	0.45	
3	-0.85	-1.18	
4	0.85	-1.18	
5	1.38	0.45	

Ctc	Х	Υ	
Α	0.00	1.30	
В	-1.13	-0.65	
С	1.13	-0.65	

Rear view of plug for male & female insulator Opposite marking between plug & receptacle.







Х

-1.24

0.00

1.24

Α

В

c

Υ 0.72

-1.43

0.72

Ctc	Х	Υ	
1	0.00	1.70	
2	-1.47	0.85	
3	-1.47	-0.85	
4	0.00	-1.70	
5	1.47	- 0.85	
6	1.47	0.85	

Rear view of plug & receptacle for male insulator. Opposite marking between male & female insulator.

07 - 09







Ctc	х	Υ	
1	-0.85	2.05	
2	-2.05	0.85	
3	-2.05	-0.85	
4	-0.85	-2.05	
5	0.85	-2.05	
6	2.05	-0.85	
7	2.05	0.85	
8	0.85	2.05	
9	0.00	0.00	

Ctc	х	Υ	
Α	-1.24	1.70	
В	-2.00	-0.66	
С	0.00	-2.11	
D	2.00	-0.66	
Е	1.24	1.70	

Rear view of plug & receptacle for male insulator. Opposite marking between male & female insulator.

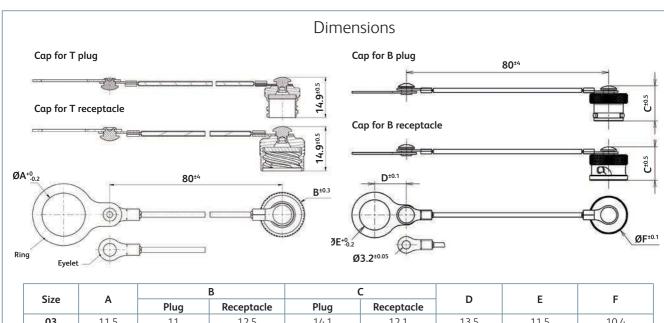


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Caps





Size	_		В	(С	D	E	F
Size	A	Plug	Receptacle	Plug	Receptacle	ט		
03	11.5	11	12.5	14.1	12.1	13.5	11.5	10.4
05	13.5	13	15	13.7	13.9	14.5	13	13.4
07	14.5	14	17	14	13.1	15.5	14.5	15.05

Note: for other lanyard length please consult us.

Gaskets

Shell size	Bayonet Box receptacle	Bayonet Box receptacle	Bayonet oval flange receptacle
3	T0G03	BOG03	B2G03
5	T0G05	BOG05	B2G05
7	T0G07	B0G07	B2G07



Note: All dimensions are in millimeters (mm).



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