

AMD Series

Description

- The insert arrangement density is equivalent to MIL-DTL-38999K I series with high density, small size, light weight, 7~129 contacts, 9 kinds of insert arrangements, the others are same as ZEG series
- Patent No.: ZL 01 2 70083.5



Main technical characteristics

[Mechanical]

- Shell: high strength aluminum alloy, electroless nickel plating
- Insulator: thermosetting
- Contact material: copper alloy with gold plating
- Vibration: frequency 10~2000Hz, acceleration: 196m/s²
- Shock: acceleration 980 m/s²
- Constant acceleration: 980 m/s²
- Endurance: 1000 cycles

[Electrical]

- Contact resistance and current rating
- Contact Diameter: Φ0.635mm
- Contact resistance: ≤0.025Ω
- Current rating: 1A
- Rated voltage, withstanding voltage and

Insulation resistance:

Operation environment	Rated voltage (V)	Withstanding voltage (V)	Insulation resistance (MΩ)
Normal temp.	250	1000	≥500
Damp heat	250	750	≥20
Altitude 1Kpa	115	200	-

- Continuity between shells:

Aluminum alloy shell ≤5mΩ

[Environmental]

- Operation temperature: -55℃~+200℃
- RH: 98% at 40℃
- Salt spray: 96h for electroless nickel plating, zinc plating 1000h for stainless steel passive
- Altitude: 30000m
- Humidity resistance, corrosion resistance, fungus resistance, rain resistance and dust proof

Ordering information

Basic series	AMD	14	T	10	Z₁	P₁	(W)
XCF- high density wire spring soldered connector							
Shell size	12-14-18-22-24-27-30-33-36						
Type	T plug	F square flange receptacle					
Number of contact	7~129 (See the insert arrangement)						
Contact type	Z ₁ pin, gold plating	K ₁ socket, gold plating					

Shell plating and accessories

- D₁ non-thread termination, electroless nickel plating
- D₃ non-thread termination, olive-green zinc plating, passive
- D₄₀ non-thread termination, stainless steel, passive
- P₁ thread termination, with accessory, electroless nickel plating
- P₃ thread termination, with accessory, olive-green zinc plating, passive
- P₄₀ thread termination, with accessory, stainless steel, passive

Polarization blank-N, (W)-W, (X)-X, (Y)-Y, (Z)-Z

Note: For more detail, see XC and its variation electrical connector accessory

Example:

AMD series, 14# shell, receptacle, 10 sockets with gold plating, electroless nickel plating, N polarization, P/N is AMD14F10K₁P₁

AMD series, 14# shell, plug, 10 pins with gold plating, electroless nickel plating, N polarization, P/N is AMD14T10Z₁P₁

Outline dimensions

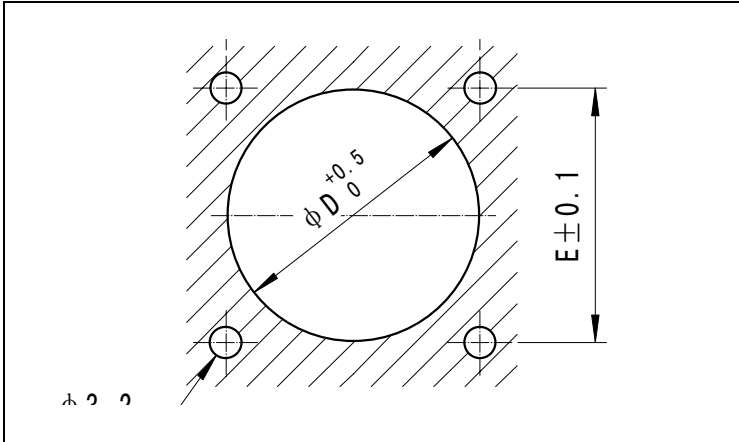
[AMD plug]

shell size	D1	D2	L
12	19.5	12	25.5
14	21.5	14	
18	25.5	18	
22	29.5	22	
24	31.5	24	28.5
27	34.5	27	
30	37.5	30	
33	40.5	33	
36	43.5	36	

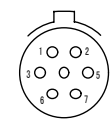
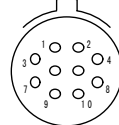
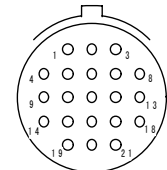
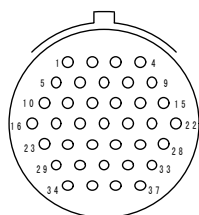
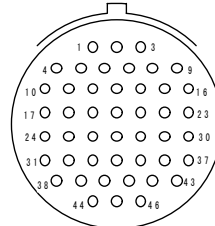
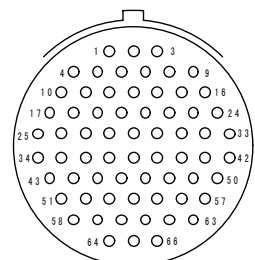
[AMD receptacle (AMD receptacle is composed of thread termination and non-thread termination. The outlines of both are same. For example: receptacle with thread termination)]

shell size	D1	D2	B	E	L
12	13.7	12	23	17	25.5
14	15.7	14	25	19	
18	19.7	18	27.5	21.5	
22	23.7	22	30	24	
24	25.7	24	32	26	28.5
27	28.7	27	34.5	28	
30	31.7	30	36.5	30	
33	34.7	33	39.5	32.5	
36	37.7	36	41	34	

AMD receptacle recommended panel cut-out dimensions

	shell size	D	E
		12	12.5
	14	14.5	19
	18	18.5	21.5
	22	22.5	24
	24	24.5	26
	27	27.5	28
	30	30.5	30
	33	33.5	32.5
	36	36.5	34

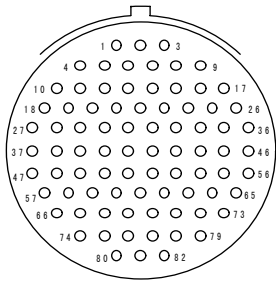
AMD Series Insert Arrangement (front face of pin insert)

AMD12-7 	AMD14-10 	AMD18-21 
AMD22-37 	AMD24-46 	AMD27-66 

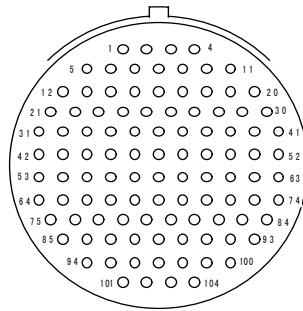


APMA

AMD30-82



AMD33-104



AMD36-129

