



MIL-DTL-32139 Nano D-sub Connectors

R06 SMT Series

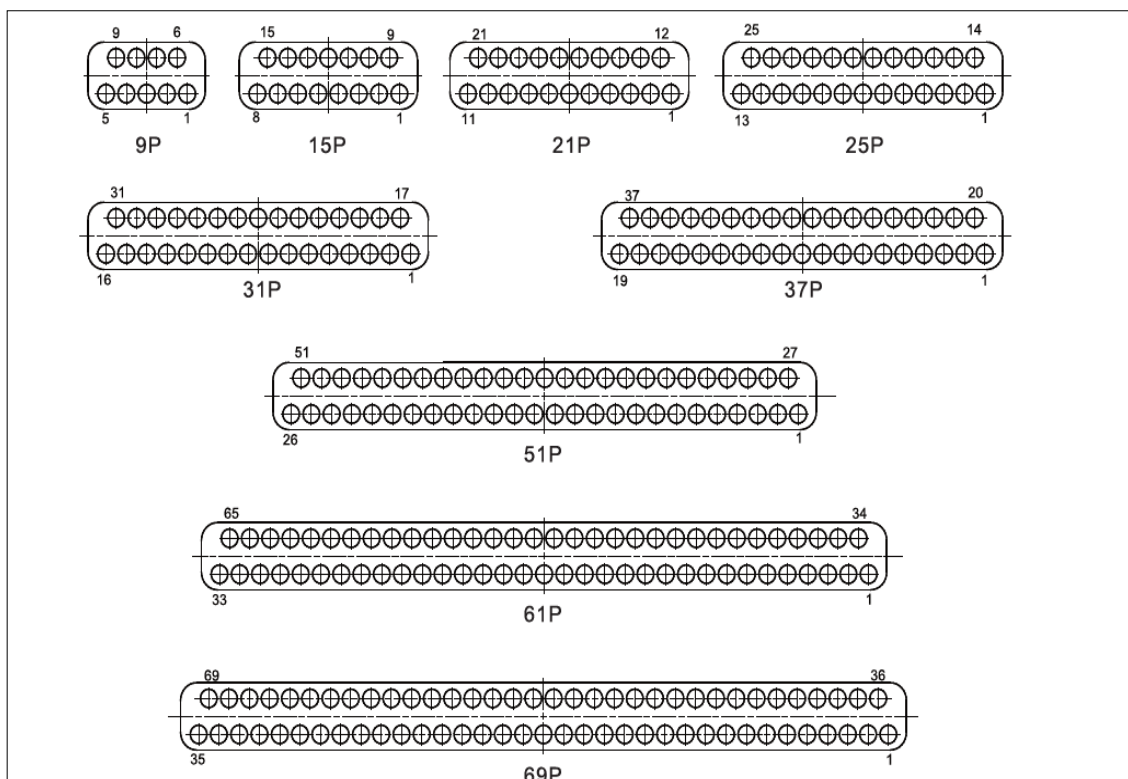
Brief introduction

- Contacts: 9, 15, 21, 25, 31, 37, 51, 65, 69
- Twist flexible micro pin (twist pin), 0.635mm pitch, micro miniature outline dimension
- Screw nut locking, it is gently when insert and extract, stably locked
- It is used for all kinds for electric circuit system interconnection which have high density, micro, light, highly reliable requirement, it can meet light and miniaturize demand
- Plug with twist pin, receptacle with socket, free terminal with locking screw, fixed terminal with nut, standard mated connector locked by screw and nut
- Standard: MIL-DTL-32139
- Undefined tolerance is ± 0.13

Specification

- | | | | |
|---|---------------------------------|--------------------------|----------------------------------|
| ■ Environment: | -55°C ~ +125°C | ■ Contact resistance: | $\leq 21\text{m}\Omega$ |
| ■ Vibration: | 10Hz~2000Hz 196m/s ² | ■ Insulation resistance: | $\geq 5000\text{M}\Omega$ 100VDC |
| ■ Shock: | 980m/s ² 6ms | ■ Dielectric strength: | 250V |
| ■ Rated current: | 1A | ■ Machine life: | 200 times |
| ■ Random vibration: power spectrum density 0.4G ² /Hz, r.m.s value of total acceleration 23.1G | | | |

Contact layout



Remark: The above layout is view from plug mate side end face

How to order

Series	R06	-2	2	1	-M	2	-9	PI	-TH
Contact row: 2 — tow rows									
Shell plating: 2 — nickel plating									
Contact plating: 1 — gold plating									
Tail termination type : M— SMT									
Mounting style: 2— vertical SMT 3 — horizontal SMT 8 — straddle flexible SMT									
Contact number: 9、15、21、25、31、37、51、65、69									
Contact type PI — pin in plug RH— socket in receptacle									
Locking component type: JC— locking screw(straight slot) JC1— locking screw(hex, not recommend) TH— connect nut NH— guide hole with nut mounted DZ— guide pin TH1— solder nut SH— solder guide hole									

Choose mating connector

- When choosing mating connector with locking accessories usually choose the locking component which one side with connect nut(TH), the other side with locking screw(JC).
- When choosing product with guide accessories,connector without locked component but only with guide component,it need fix on mounting panel after mated,for avoiding connector take off. When choosing mating connector with guide components usually choose the guide component which one side with guide pin, the other side with guide hole

R06 Horizontal SMT Plug Series

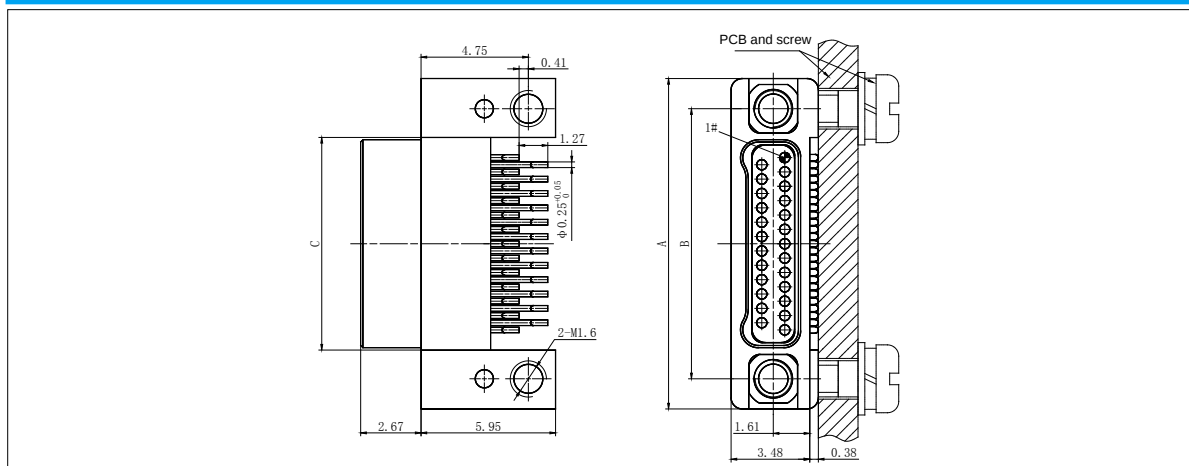
Order marks

Series	R06	-2	2	1	-M	3	-25	PI	-TH	 R06-221-M3-25PI-TH
Contact row:										
2 — tow rows										
Shell plating:										
2 — nickel plating										
Contact plating:										
1 — gold plating										
Tail termination type :										
M— SMT										
Mounting style:										
3 — horizontal SMT										
Contact number:										
9、15、21、25、31、37、51、65、69										
Contact type:										
PI — pin in plug										
Locking component type:										
TH— connect nut										

Remark

- R06-221-M3-25PI-TH usually mated with receptacle which have locking screw

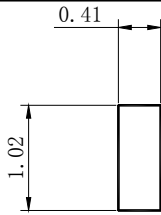
Outline dimension



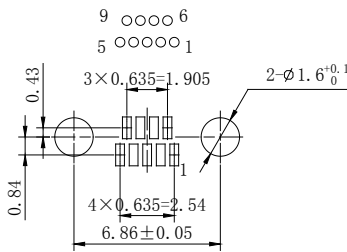
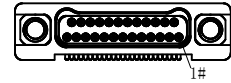
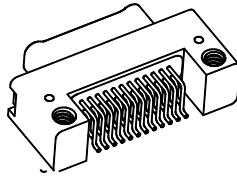
Pin count	Dimension			Pin count	Dimension			Pin count	Diension		
	A	B	C		A	B	C		A	B	C
9pins	9.63	6.86	4.31	15pins	11.53	8.76	6.22	21pins	13.44	10.67	8.13
25pins	14.71	11.94	9.4	31pins	16.61	13.84	11.3	37pins	18.52	15.75	13.21
51pins	22.96	20.19	17.65	65pins	27.41	24.64	22.10	69pins	28.68	25.91	23.37

Remark: All dimensions are in mm

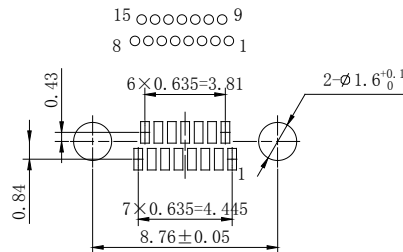
Suggested PCB Layout



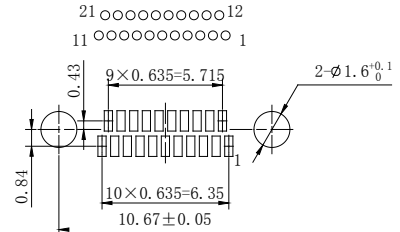
Lead footprint dimension



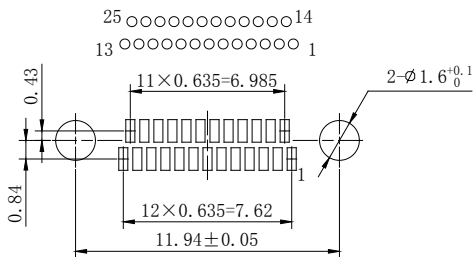
R06-221-M3-9PI-TH



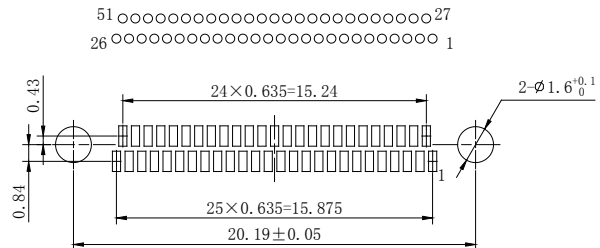
R06-221-M3-15PI-TH



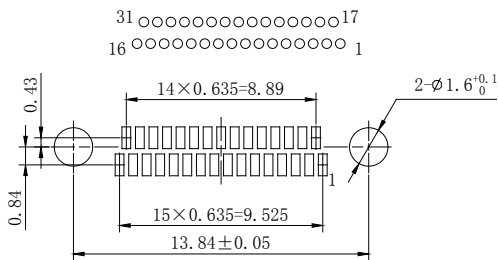
R06-221-M3-21PI-TH



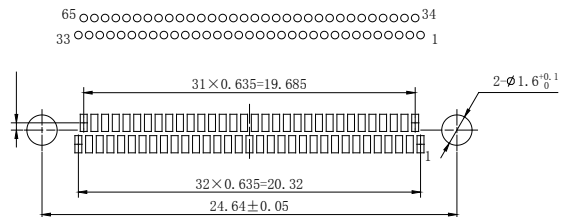
R06-221-M3-25PI-TH



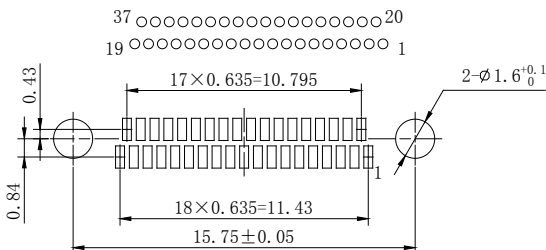
R06-221-M3-51PI-TH



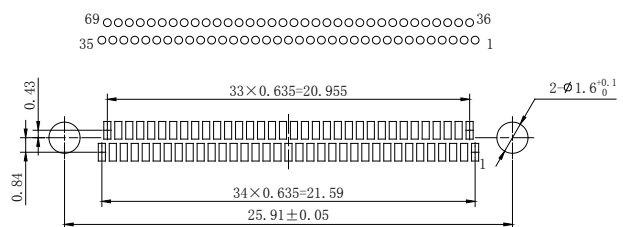
R06-221-M3-31PI-TH



R06-221-M3-65PI-TH



R06-221-M3-37PI-TH



R06-221-M3-69PI-TH

Remark: All dimensions are in mm