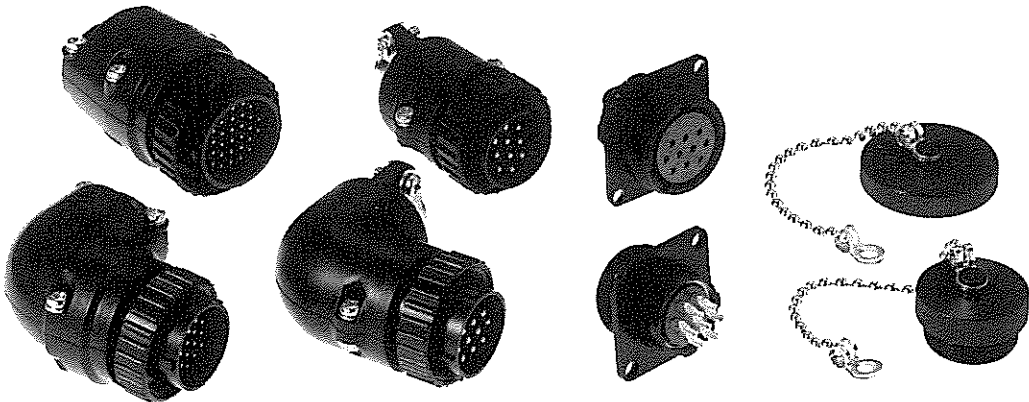


Miniature Version

Conform to JIS-C-5432



- SUMMARY
- JM series connectors conform to JIS-C-5432. These connectors are used in a wide variety of industrial machinery applications.
- FEATURE
- Miniature and High Density
 - #20 and #16 contact sizes are available
 - 5 key design prevents mis-mating
 - Quick and Easy Termination
 - Contacts are pre-loaded in the connector. Solder cups are permanently oriented in one direction to simplify termination.
 - UL 94V-0 materials used
 - Optional dip solder termination

Material/Finish

InsertPBT resin (UL94V-0)/Blue

ContactCopper alloy/Silver or Gold plating

Shell.....Zinc alloy/Black, anti-corrosive treatment

Hood.....ABS resin (UL94V-0)/Black

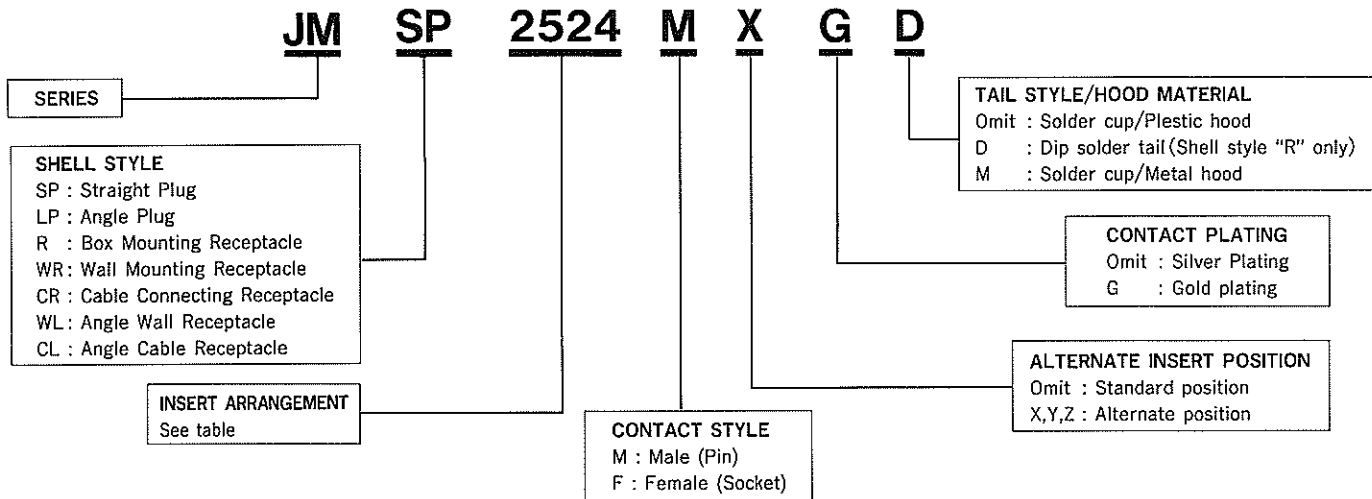
CapAluminum alloy/Black, anti-corrosive treatment

Specification

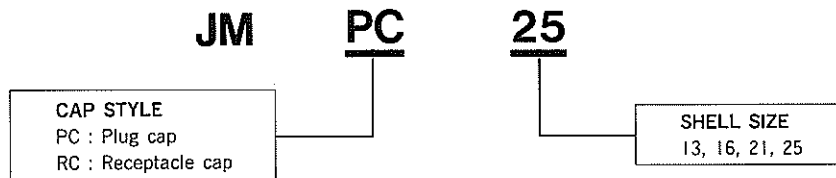
		Contact size	
		#20	#16
Voltage rating (max.)		250V AC(rms), 350V DC	
Current rating (max.)		5A	10A
Operating temperature		-25°C to +85°C	
Insulation resistance		10000MΩ min. at 500V DC	
Dielectric withstanding voltage		1000V AC (rms) at sea level	
Contact resistance		5mΩ max. at 1A	
Vibration		10-55Hz, Amplitude : 1.5mm(.059)	
Shock		Acceleration 50G	
Durability		500 cycles	
Humidity (Steady state)		40°C, 90 to 95%, 96 hours	
Temperature cycle		-40°C to +100°C, 5cycles	
Salt spray		5%, 35°C, 48hours	
Wire size	Contact size	AWG #20	AWG #16
	Wire size Conductor crossared	AWG #20 or Less	AWG #16 or Less

Ordering Information

•Connector



•Cap



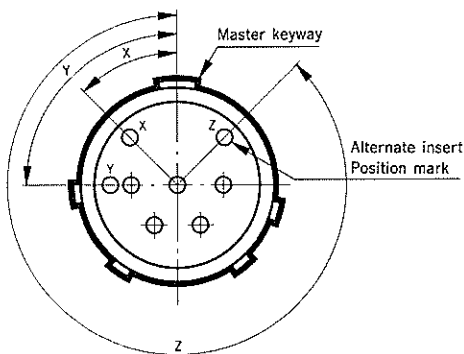
Insert Arrangements (Front view of male insert)

No. of Contacts	3		4		5		7		10	
Shell Size	13		21		13		16		21	
Arrangements										
Insert No.	1303		2104		1305		1607		2107	
No. of Contacts	16		19		24		28		32	
Shell Size	21		25		21		25		25	
Arrangements										
Insert No.	2116		2516		2119		2524		2528	

○.....#20 Male contact ●.....#16 Male contact

Unit : mm (inch)

Alternate Insert Positions

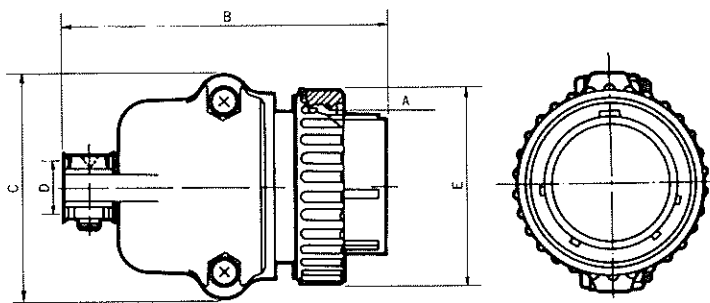


Front view of pin insert

No. of Contacts	Insert Number	X	Y	Z
3	1303	30°	60°	180°
4	2104	30	135	—
5	1305	45	90	315
7	1607	30	135	—
	2107	30	135	—
10	1610	45	90	315
	2110	45	90	315
16	2116	45	90	315
	2516	45	90	315
19	2119	45	90	315
24	2524	45	90	315
28	2528	45	90	315
32	2532	45	90	315

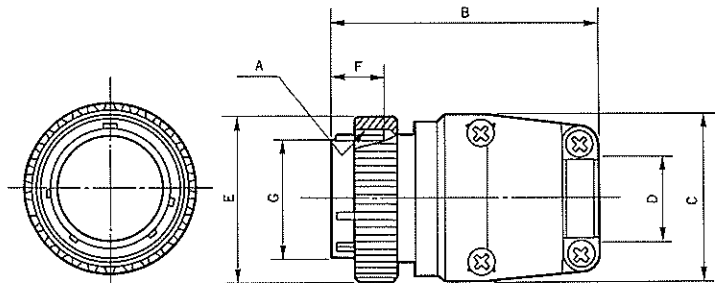
JMSP (Straight Plug)

- Plastic hood type



Shell Size	Threads A	B	C	D	E
13	M18×1	46.5 (1.831)	26.5 (1.043)	3.0~8.0 (.118~.315)	21 (.827)
16	M22×1	48.8 (1.921)	30.5 (1.201)	3.0~9.0 (.118~.354)	25 (.984)
21	M26×1	51.8 (2.039)	34.0 (1.339)	8.0~12.0 (.315~.472)	29 (1.142)
25	M30×1	54.1 (2.130)	37.5 (1.476)	9.6~15.0 (.378~.591)	33 (1.299)

- Metal hood type

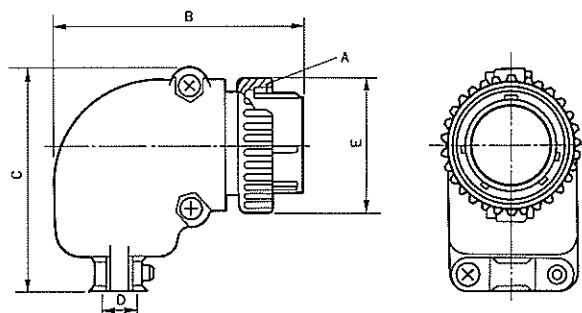


Shell Size	Threads A	B	C	D	E
13	M18×1	48.5 (1.909)	24.0 (.945)	7.0~8.7 (.276~.343)	21 (.827)
16	M22×1	50.5 (1.988)	27.9 (1.098)	8.0~10.5 (.315~.413)	25 (.984)
21	M26×1	52.5 (2.067)	32.1 (1.264)	10.0~13.0 (.394~.512)	29 (1.142)
25	M30×1	55.5 (2.185)	35.3 (1.390)	14.0~16.0 (.551~.630)	33 (1.299)

JMLP(Right Angle Plug)

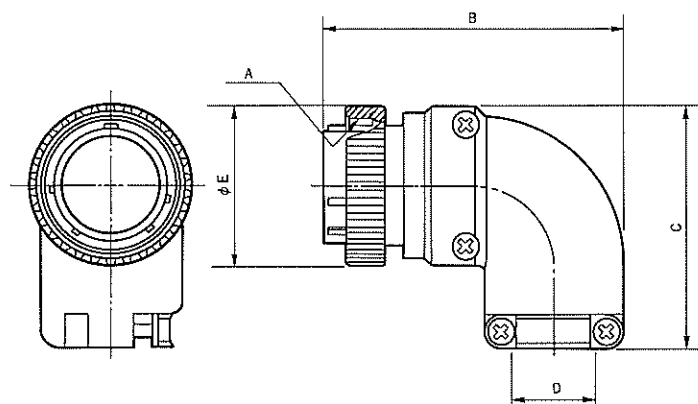
Unit : mm(inch)

- Plastic hood type



Shell Size	Threads A	B	C	D	E
13	M18×1	49.3 (1.941)	41.0 (1.614)	3.0~8.0 (.118~.315)	21 (.827)
16	M22×1	55.0 (2.165)	46.0 (1.811)	3.0~9.0 (.118~.354)	25 (.984)
21	M26×1	57.5 (2.264)	50.3 (1.980)	8.0~12.0 (.315~.472)	29 (1.142)
25	M30×1	63.0 (2.480)	54.5 (2.146)	9.6~15.0 (.378~.591)	33 (1.299)

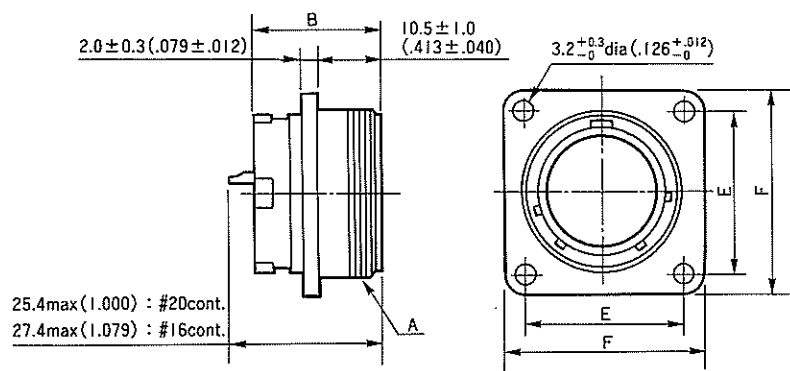
- Metal hood type



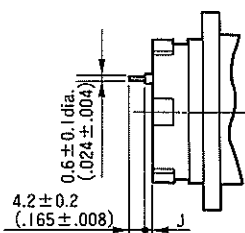
Shell Size	Threads A	B	C	D	E
13	M18×1	52.2 (2.067)	42.5 (1.673)	7.0~8.7 (.276~.343)	21 (.827)
16	M22×1	57.0 (2.244)	46.5 (1.831)	8.0~10.5 (.315~.413)	25 (.984)
21	M26×1	60.5 (2.382)	50.7 (1.996)	10.0~13.0 (.394~.512)	29 (1.142)
25	M30×1	66.0 (2.598)	53.4 (2.102)	14.0~16.0 (.551~.630)	33 (1.299)

JMR(Box Mounting Receptacle)

- Solder cup type



- Dip solder type

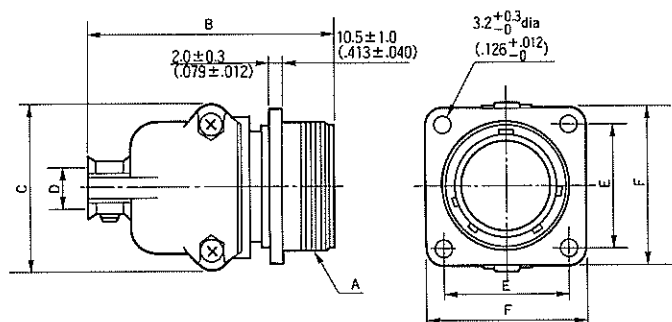


Shell Size	Threads A	B	E	F	J
13	M18×1	20.4 (.803)	20 (.787)	26 (1.024)	2.5 (.098)
16	M22×1	20.4 (.803)	23 (.906)	29 (1.142)	2.5 (.098)
21	M26×1	20.4 (.803)	26 (1.024)	32 (1.260)	2.5 (.098)
25	M30×1	21.6 (.850)	29 (1.142)	35 (1.378)	1.3 (.051)

JMWR(Wall Mounting Receptacle)

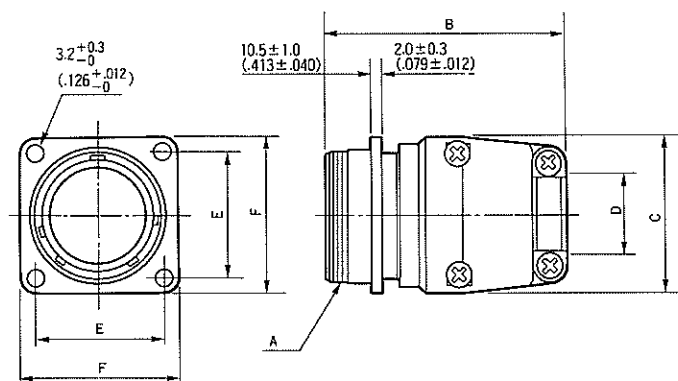
Unit : mm(inch)

• Plastic hood type



Shell Size	Threads A	B	C	D	E	F
13	M18×1	46.5 (1.831)	26.5 (1.043)	3.0~8.0 (.118~.315)	20.0 (.787)	26.0 (1.024)
16	M22×1	48.8 (1.921)	30.5 (1.201)	3.0~9.0 (.118~.354)	23.0 (.905)	29.0 (1.142)
21	M26×1	51.8 (2.039)	34.0 (1.339)	8.0~12.0 (.315~.472)	26.0 (1.024)	32.0 (1.260)
25	M30×1	54.1 (2.130)	37.5 (1.476)	9.6~15.0 (.378~.591)	29.0 (1.142)	35.0 (1.378)

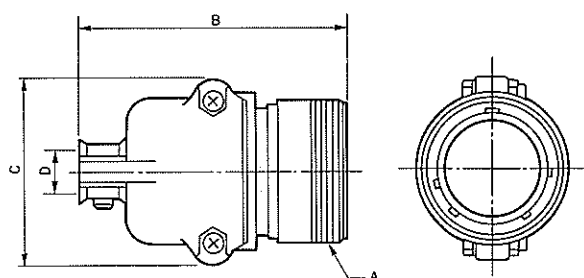
• Metal hood type



Shell Size	Threads A	B	C	D	E	F
13	M18×1	48.5 (1.909)	24.0 (.945)	7.0~8.7 (.276~.343)	20.0 (.787)	26.0 (1.024)
16	M22×1	50.5 (1.988)	27.9 (1.098)	8.0~10.5 (.315~.413)	23.0 (.905)	29.0 (1.142)
21	M26×1	52.5 (2.067)	32.1 (1.264)	10.0~13.0 (.394~.512)	26.0 (1.024)	32.0 (1.260)
25	M30×1	55.5 (2.185)	35.3 (1.390)	14.0~16.0 (.551~.630)	29.0 (1.142)	35.0 (1.378)

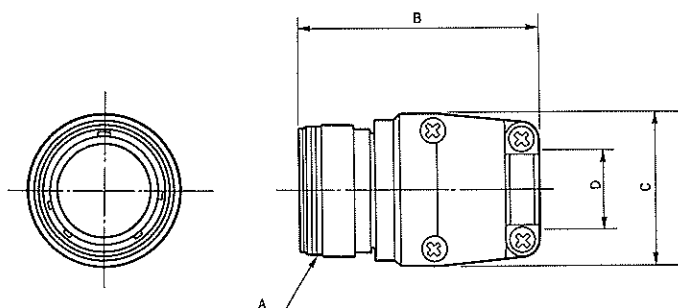
JMCR(Cable Connecting Receptacle)

• Plastic hood type



Shell Size	Threads A	B	C	D
13	M18×1	46.5 (1.831)	26.5 (1.043)	3.0~8.0 (.118~.315)
16	M22×1	48.8 (1.921)	30.5 (1.201)	3.0~9.0 (.118~.354)
21	M26×1	51.8 (2.039)	34.0 (1.339)	8.0~12.0 (.315~.472)
25	M30×1	54.1 (2.130)	37.5 (1.476)	9.6~15.0 (.378~.591)

• Metal hood type

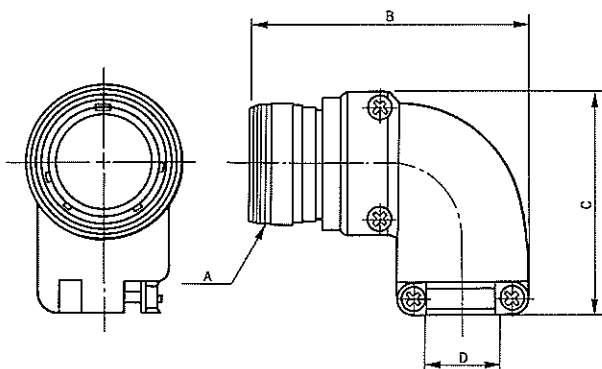


Shell Size	Threads A	B	C	D
13	M18×1	48.5 (1.909)	24.0 (.945)	7.0~8.7 (.276~.343)
16	M22×1	50.5 (1.988)	27.9 (1.098)	8.0~10.5 (.315~.413)
21	M26×1	52.5 (2.067)	32.1 (1.264)	10.0~13.0 (.394~.512)
25	M30×1	55.5 (2.185)	35.3 (1.390)	14.0~16.0 (.551~.630)

JMCL (Right Angle Cable Receptacle)

Unit : mm(inch)

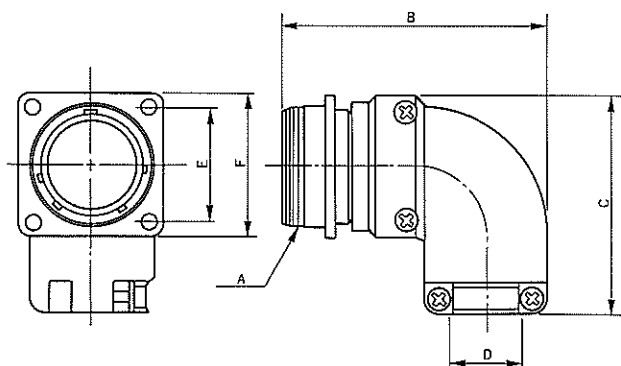
- Metal hood type



Shell size	A	B	C	D
13	M18×1	52.5 (2.067)	42.5 (1.673)	7.0~8.7 (.276~.343)
16	M22×1	57.0 (2.244)	46.5 (1.831)	8.0~10.5 (.315~.413)
21	M26×1	60.5 (2.382)	50.7 (1.996)	10.0~13.0 (.394~.512)
25	M30×1	66.0 (2.598)	53.9 (2.122)	14.0~16.0 (.551~.630)

JMWL (Right Angle Wall Mounting Receptacle)

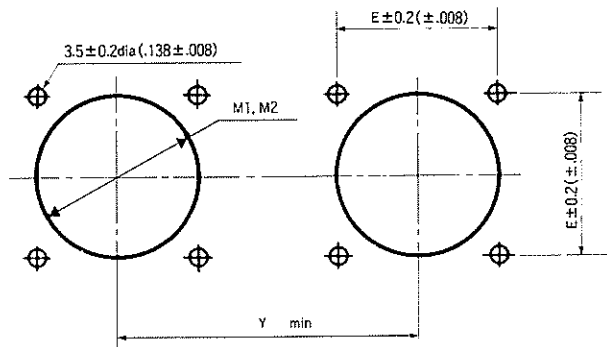
- Metal hood type



Shell size	A	B	C	D	E	F
13	M18×1	52.5 (2.067)	42.5 (1.673)	7.0~8.7 (.276~.343)	20.0 (.787)	26.0 (1.024)
16	M22×1	57.0 (2.244)	46.5 (1.831)	8.0~10.5 (.315~.413)	23.0 (.905)	29.0 (1.142)
21	M26×1	60.5 (2.382)	50.7 (1.996)	10.0~13.0 (.394~.512)	26.0 (1.024)	32.0 (1.260)
25	M30×1	66.0 (2.598)	53.9 (2.122)	14.0~16.0 (.551~.630)	29.0 (1.142)	35.0 (1.378)

Panel Cutout (for JMR/JMWR/JMCL/JMWL)

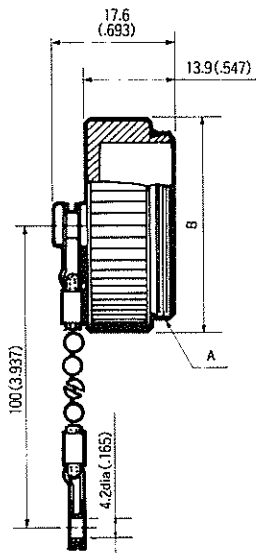
Unit : mm(inch)



Shell size	E	M ₁	M ₂	Y
13	20 (.787)	17 (.669)	19 (.748)	42 (1.654)
16	23 (.906)	21 (.827)	23 (.906)	46 (1.811)
21	26 (1.024)	25 (.984)	27 (1.063)	50 (1.969)
25	29 (1.142)	29 (1.142)	31 (1.220)	54 (2.126)

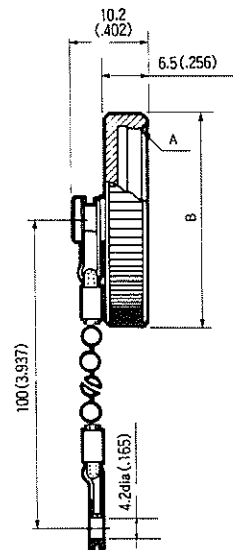
M₁: Front mounting holes dia.(Shell style "R" only)
M₂: Rear mounting holes dia.

Cap
Plug Cap



Part Number	Shell size	Threads A	B
JMPC13	13	M18×1	21 (.827)
JMPC16	16	M22×1	25 (.984)
JMPC21	21	M26×1	29 (1.142)
JMPC25	25	M30×1	33 (1.299)

Receptacle Cap

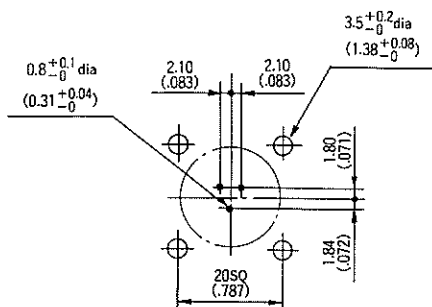


Part Number	Shell size	Threads A	B
JMRC13	13	M18×1	21 (.827)
JMRC16	16	M22×1	25 (.984)
JMRC21	21	M26×1	29 (1.142)
JMRC25	25	M30×1	33 (1.299)

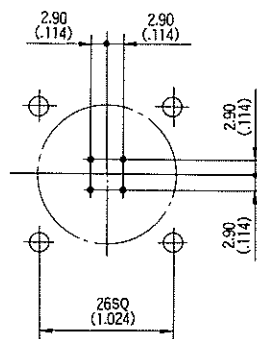
P.C.B. Mounting Holes for dip soldering type

Unit : mm(inch)

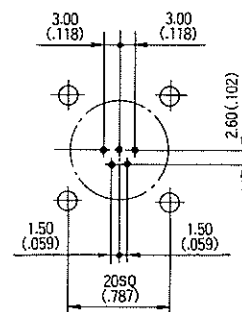
1303



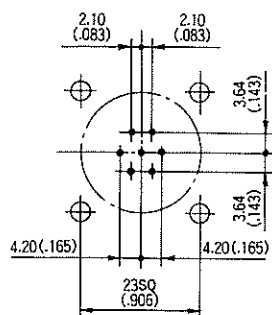
2104



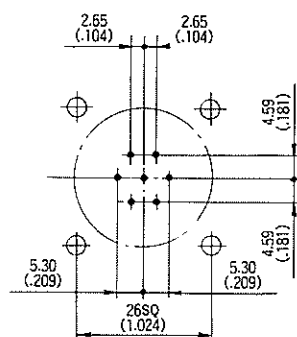
1305



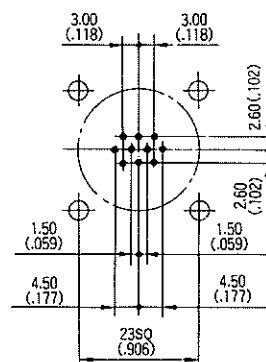
1607



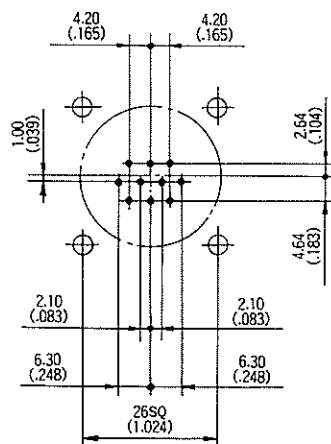
2107



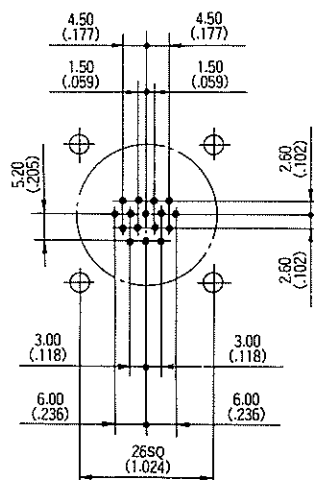
1610



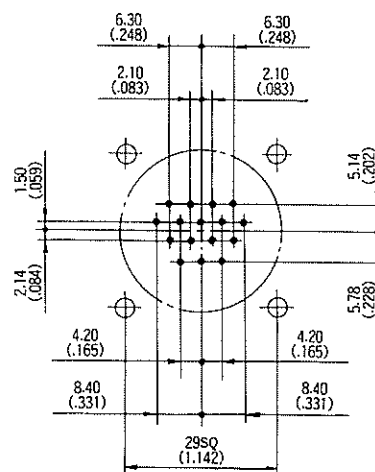
2110



2116

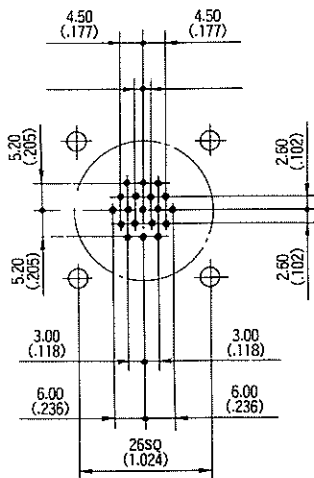


2516

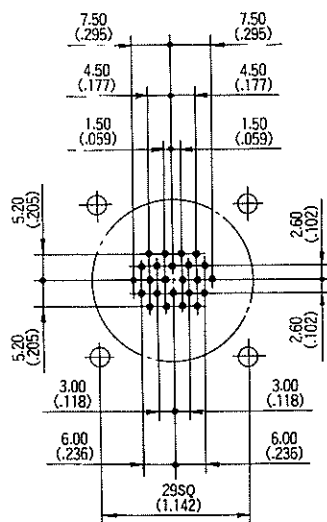


Unit : mm(inch)

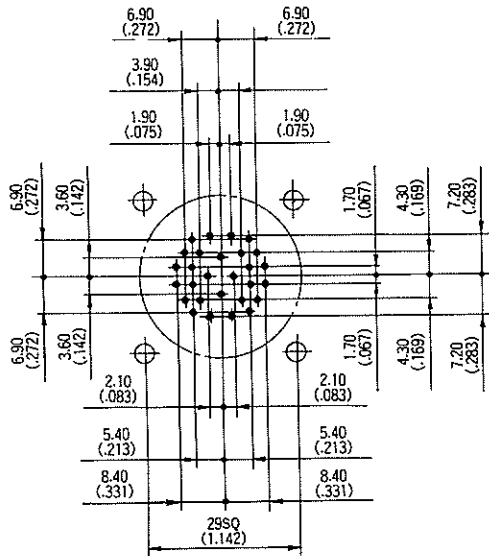
2119



2524



2528



2532

