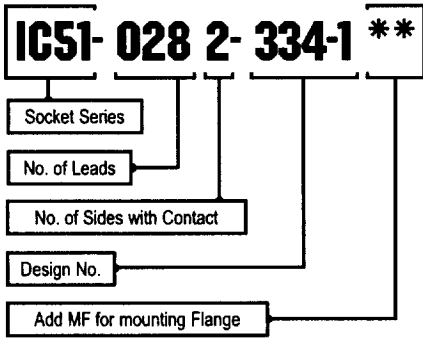
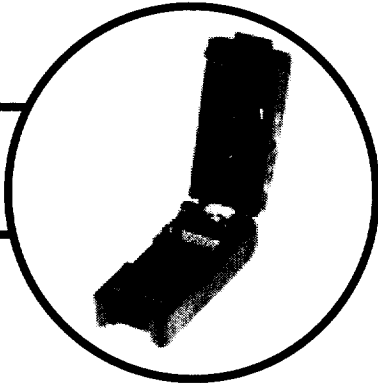


SOP, SSOP, TSOP

IC51 Series



Insulation Resistance:
Withstanding Voltage:
Contact Resistance:
Operating Temperature:

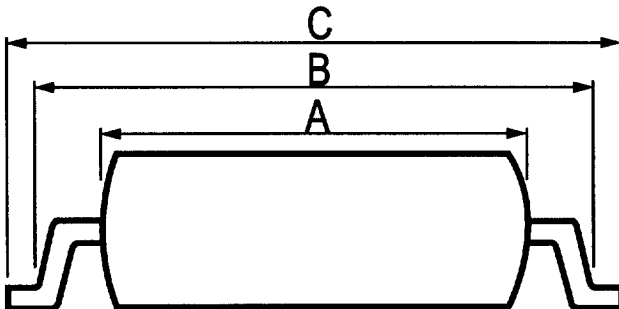
Characteristics

1,000M Ω minimum at 500 VDC
700 VAC for 1 Minute
30m Ω max. at 10mA/20mV (Initial)
-40°C ~ +150°C

Insulator:
Contact:
Plating:

Material

PES / PEI (Glass Filled)
Beryllium Copper
Gold over Nickel



A: Body Width
B: Inside of Flat Portion
C: Tip to Tip

| Part Number | No. of Leads | Body Width | Pitch | Matching Package | | | Notes |
|----------------|--------------|------------|--------|------------------|---------|-------------|---------------|
| | | | | A (Max) | B (Max) | C (Nominal) | |
| IC51-0082-1024 | 8 | 5.2 | 1.27mm | 5.3 | 7.2 | 7.9 | Floating Base |
| IC51-0102-987 | 10 | 5.2 | 1.27mm | 5.3 | 7.2 | 7.9 | Floating Base |
| IC51-0142-084 | 14 | 4.5 | 1.27mm | 4.5 | 5.7 | 6.0 | Separator |
| IC51-0142-189 | 14 | 7.0 | 1.27mm | 7.0 | 8.9 | 10.0 | Separator |
| IC51-0142-951 | 14 | 4.4 | 1.25mm | 4.5 | 5.2 | 6.0 | Separator |
| IC51-0142-1013 | 14 | 5.2 | 1.27mm | 5.3 | 7.2 | 7.9 | Floating Base |

Note: Sockets with "separator" can accept and properly align lower pin count devices. Sockets with "Floating Base" will only accept devices with the same pin count as the socket.

SOP, SSOP, TSOP

IC51 Series

| Part Number | No. of Leads | Body Width | Matching Package | | | | Notes |
|--------------------|--------------|------------|------------------|---------|---------|-------------|---------------|
| | | | Pitch | A (Max) | B (Max) | C (Nominal) | |
| IC51-0122-1836 | 12 | 4.4 | 0.80mm | 4.40 | 5.90 | 6.40 | Separator |
| IC51-0162-109 | 16 | 5.2 | 1.27mm | 5.20 | 6.00 | 7.20 | Separator |
| IC51-0162-163 | 16 | 4.5 | 1.27mm | 4.50 | 5.70 | 6.00 | Separator |
| IC51-0162-225 | 16 | 4.4 | 1.27mm | 4.40 | 5.40 | 6.00 | Separator |
| IC51-0162-271-1 | 16 | 5.5 | 1.27mm | 5.50 | 5.20 | 6.00 | Separator |
| IC51-0162-271-2 | 16 | 5.0 | 1.27mm | 5.00 | 5.20 | 6.00 | Separator |
| IC51-0162-272-1 | 16 | 5.5 | 1.27mm | 5.50 | 5.70 | 6.50 | Separator |
| IC51-0162-273-1 | 16 | 5.5 | 1.27mm | 5.50 | 6.22 | 7.00 | Separator |
| IC51-0162-273-2 | 16 | 5.0 | 1.27mm | 5.00 | 6.20 | 7.00 | Separator |
| IC51-0162-658 | 16 | 4.4 | 1.27mm | 4.50 | 5.70 | 7.00 | Separator |
| IC51-0162-778 | 16 | 4.4 | 0.65mm | 4.60 | 5.60 | 6.40 | Separator |
| IC51-0162-902-2 | 16 | 5.3 | 1.27mm | 5.35 | 7.20 | 8.20 | Separator |
| IC51-0162-911 | 16 | 4.4 | 0.65mm | 4.50 | 5.60 | 6.40 | Floating Base |
| IC51-0162-1025 | 16 | 5.2 | 1.27mm | 5.25 | 7.20 | 7.90 | Floating Base |
| IC51-0162-1035 | 16 | 4.0 | 1.27mm | 4.20 | 5.40 | 6.00 | Separator |
| IC51-0162-1042 | 16 | 4.0 | 1.27mm | 4.20 | 5.40 | 6.00 | Separator |
| IC51-0202-164 | 20 | 5.5 | 1.27mm | 5.70 | 6.90 | 8.50 | Separator |
| IC51-0202-347 | 20 | 7.7 | 1.27mm | 7.70 | 9.50 | 10.30 | Separator |
| IC51-0202-714 | 20 | 7.6 | 1.27mm | 7.60 | 9.30 | 10.30 | Floating Base |
| IC51-0202-779 | 20 | 4.4 | 0.65mm | 4.60 | 5.60 | 6.40 | Floating Base |
| IC51-0202-912 | 20 | 4.6 | 0.65mm | 4.60 | 5.60 | 6.40 | Floating Base |
| IC51-0202-1026 | 20 | 5.2 | 1.27mm | 5.25 | 7.20 | 7.90 | Floating Base |
| IC51-0262-1339(20) | 20 | 7.6 | 1.27mm | 7.60 | 8.40 | 9.20 | Floating Base |
| IC51-0222-803 | 22 | 5.5 | 1.27mm | 5.50 | 6.40 | 7.10 | Separator |
| IC51-0242-269-1 | 24 | 9.4 | 1.27mm | 9.40 | 10.90 | 11.70 | Separator |
| IC51-0242-270-1 | 24 | 9.4 | 1.27mm | 9.40 | 11.90 | 12.70 | Separator |
| IC51-0242-270-3 | 24 | 8.0 | 1.27mm | 8.00 | 11.90 | 12.70 | Separator |
| IC51-0242-303-1 | 24 | 5.3 | 1.27mm | 5.35 | 7.30 | 8.00 | Separator |
| IC51-0242-308 | 24 | 5.3 | 0.8mm | 5.40 | 7.20 | 7.80 | Floating Base |
| IC51-0242-310-1 | 24 | 4.5 | 1.0mm | 4.55 | 5.20 | 6.40 | Separator |
| IC51-0242-367-1 | 24 | 9.4 | 1.27mm | 9.40 | 10.43 | 11.20 | Separator |
| IC51-0242-577 | 24 | 7.8 | 0.8mm | 7.85 | 9.30 | 10.00 | Separator |
| IC51-0242-761 | 24 | 5.6 | 0.65mm | 5.80 | 6.70 | 7.60 | Separator |
| IC51-0242-793 | 24 | 5.5 | 1.27mm | 5.50 | 7.10 | 8.00 | Separator |
| IC51-0242-847 | 24 | 5.3 | 1.27mm | 5.30 | 5.90 | 6.90 | Separator |
| IC51-0242-913 | 24 | 5.6 | 0.65mm | 5.70 | 6.70 | 7.60 | Floating Base |
| IC51-0242-980 | 24 | 5.2 | 1.27mm | 5.25 | 7.20 | 7.90 | Floating Base |
| IC51-0242-1006-1 | 24 | 14.4 | 0.5mm | 14.40 | 15.20 | 16.00 | Floating Base |
| IC51-0262-1339 | 26 | 7.6 | 1.27mm | 7.60 | 8.40 | 9.20 | Floating Base |
| IC51-0282-153 | 28 | 8.7 | 1.27mm | 8.70 | 10.00 | 12.00 | Separator |
| IC51-0282-165 | 28 | 7.4 | 1.27mm | 7.40 | 8.70 | 9.40 | Separator |
| IC51-0282-334-1 | 28 | 7.5 | 1.27mm | 7.50 | 9.40 | 10.30 | Separator |
| IC51-0282-474 | 28 | 8.4 | 1.27mm | 8.45 | 11.10 | 12.00 | Separator |
| IC51-0282-673-1 | 28 | 11.8 | 0.55mm | 11.80 | 12.60 | 13.40 | Floating Base |
| IC51-0282-986 | 28 | 7.6 | 1.27mm | 7.60 | 9.60 | 10.30 | Floating Base |
| IC51-0282-1032-1 | 28 | 12.4 | 0.5mm | 12.40 | 13.30 | 14.00 | Floating Base |
| IC51-0302-371-1 | 30 | 7.8 | 1.27mm | 7.80 | 9.60 | 10.30 | Separator |
| IC51-0302-371-2 | 30 | 8.0 | 1.27mm | 8.00 | 9.20 | 10.30 | Separator |

Note: Sockets with "separator" can accept and properly align lower pin count devices. Sockets with "Floating Base" will only accept devices with the same pin count as the socket.

SOP, SSOP, TSOP

IC51 Series

| Part Number | No. of Leads | Body Width | Matching Package | | | | Notes |
|------------------|--------------|------------|------------------|---------|---------|-------------|-------------------|
| | | | Pitch | A (Max) | B (Max) | C (Nominal) | |
| IC51-0302-755 | 30 | 5.8 | 0.65mm | 5.80 | 6.70 | 7.60 | Separator |
| IC51-0302-904 | 30 | 7.8 | 1.27mm | 7.80 | 9.20 | 10.30 | Separator |
| IC51-0302-914 | 30 | 5.7 | 0.65mm | 5.70 | 6.70 | 7.60 | Floating Base |
| IC51-0302-1017 | 30 | 7.6 | 1.27mm | 7.60 | 9.60 | 10.30 | Floating Base |
| IC51-0322-883-1 | 32 | 13.7 | 0.5mm | 13.73 | 14.50 | 16.00 | Floating Base |
| IC51-0322-1031-1 | 32 | 12.5 | 0.5mm | 12.50 | 13.30 | 14.00 | Floating Base |
| IC51-0322-1207-1 | 33 | 18.4 | 0.5mm | 18.43 | 19.30 | 20.00 | Floating Base |
| IC51-0322-1219 | 32 | 14.4 | 0.5mm | 14.43 | 15.25 | 16.00 | Floating Base |
| IC51-0322-2161 | 32 | 11.8 | 0.5mm | 11.80 | 12.70 | 13.00 | Floating Base |
| IC51-0322-304-2 | 32 | 8.4 | 1.27mm | 8.45 | 11.00 | 12.00 | Separator |
| IC51-0322-667-2 | 32 | 11.6 | 1.27mm | 11.60 | 13.20 | 14.00 | Separator |
| IC51-0322-910 | 32 | 13.8 | 0.60mm | 13.83 | 14.60 | 14.40 | Floating Base |
| IC51-0322-937 | 32 | 8.9 | 1.27mm | 8.90 | 10.90 | 12.00 | Separator |
| IC51-0322-948 | 32 | 8.2 | 1.00mm | 8.20 | 10.50 | 12.00 | Separator |
| IC51-0322-950 | 32 | 11.3 | 1.27mm | 11.30 | 13.00 | 15.00 | Floating Base |
| IC51-0342-741 | 34 | 7.8 | 1.00mm | 7.80 | 7.80 | 9.40 | Separator |
| IC51-0362-309 | 36 | 8.5 | 0.80mm | 8.50 | 11.00 | 12.60 | Floating Base |
| IC51-0402-708 | 40 | 8.8 | 0.80mm | 8.80 | 10.60 | 12.00 | Separator |
| IC51-0402-991 | 40 | 11.6 | 1.27mm | 11.60 | 13.00 | 14.00 | Separator |
| IC51-0402-1174-1 | 40 | 18.4 | 0.50mm | 18.80 | 19.30 | 20.00 | Floating Base |
| IC51-0402-1197 | 40 | 10.9 | 1.27mm | 10.90 | 12.90 | 14.00 | Separator |
| IC51-0402-1557 | 40 | 12.4 | 0.50mm | 12.43 | 13.40 | 14.00 | Floating Base |
| IC51-0422-393 | 42 | 8.5 | 0.80mm | 8.50 | 11.00 | 12.00 | Separator |
| IC51-0442-1208 | 44 | 12.8 | 1.27mm | 12.80 | 14.70 | 15.90 | Separator |
| IC51-0442-1315 | 44 | 13.0 | 1.27mm | 13.00 | 15.00 | 15.80 | Floating Base |
| IC51-0442-1536 | 44 | 13.4 | 1.27mm | 13.60 | 14.70 | 16.00 | Separator |
| IC51-0442-1709 | 44 | 10.2 | 0.80mm | 10.43 | 11.00 | 11.76 | Separator (50/44) |
| IC51-0482-1009 | 48 | 13.7 | 0.80mm | 13.70 | 14.90 | 16.00 | Floating Base |
| IC51-0482-1099-1 | 48 | 16.4 | 0.50mm | 16.43 | 17.60 | 18.20 | Floating Base |
| IC51-0482-1009-2 | 48 | 13.7 | 0.80mm | 13.70 | 15.10 | 16.00 | Floating Base |
| IC51-0482-2019 | 48 | 18.4 | 0.50mm | 18.40 | 19.40 | 20.60 | Floating Base |
| IC51-0502-1708 | 50 | 10.2 | 0.8mm | 10.43 | 11.00 | 11.76 | Separator |
| IC51-0562-1387 | 56 | 7.7 | 0.635mm | 7.70 | 9.40 | 10.30 | Separator |
| IC51-0702-1965 | 70 | 12.8 | 0.8mm | 12.80 | 14.86 | 15.90 | Separator |
| IC51-0722-1955 | 72 | 11.0 | 0.65mm | 11.00 | 12.30 | 13.00 | |

Note: Sockets with "separator" can accept and properly align lower pin count devices. Sockets with "Floating Base" will only accept devices with the same pin count as the socket.

TSOP Carrier Style Type II

| Part Number | No. of Leads | Body Width | Matching Package | | | | Carrier |
|---------------------|--------------|----------------|------------------|---------|---------|-------------|-----------|
| | | | Pitch | A (Max) | B (Max) | C (Nominal) | |
| * IC53-536.KS-10619 | 20 | 7.6 (300 Mil) | 1.27mm | 7.6 | 8.4 | 9.2 | ICC-20-12 |
| IC53-0262-536 | 26 | 7.6 (300 Mil) | 1.27mm | 7.6 | 8.4 | 9.2 | ICC-20-13 |
| * IC53-616.KS-11998 | 40 | 10.1 (400 Mil) | 0.8mm | 10.2 | 10.9 | 11.8 | IC-44-5 |
| IC53-0442-616 | 44 | 10.1 (400 Mil) | 0.8mm | 10.2 | 10.9 | 11.8 | IC-44-5 |

Note: Sockets with "separator" can accept and properly align lower pin count devices. Sockets with "Floating Base" will only accept devices with the same pin count as the socket.

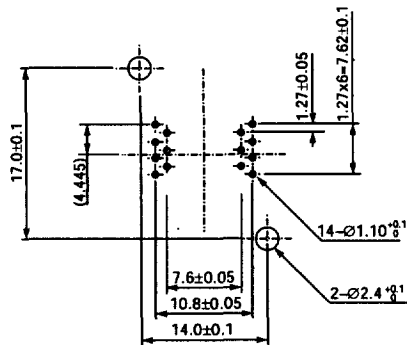
* Depopulated Version

PC BOARD LAYOUTS

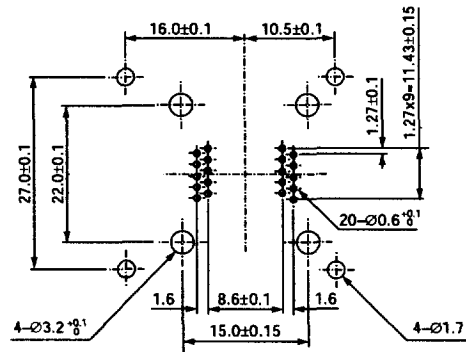
SOP

IC51 Series

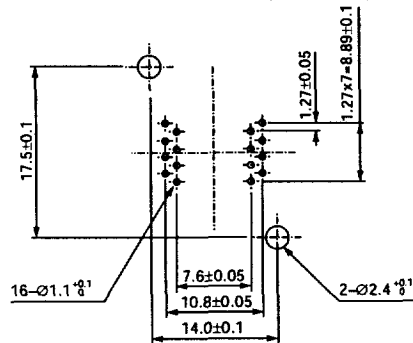
SOP IC51-1035.KS-15187 (14 Pins)



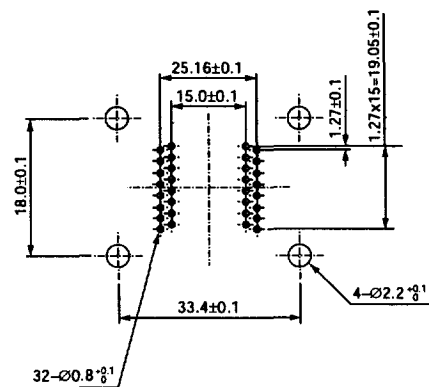
SOP IC51-0202-164 (20 Pins)



SOP IC51-0162-1035 (16 Pins)



SOP IC51-0322-950 (32 Pins)

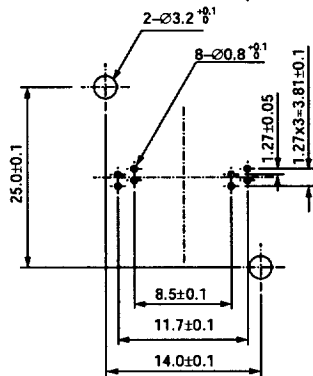


SOP

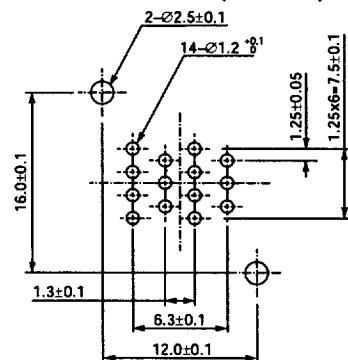
IC51 Series

PC BOARD LAYOUTS

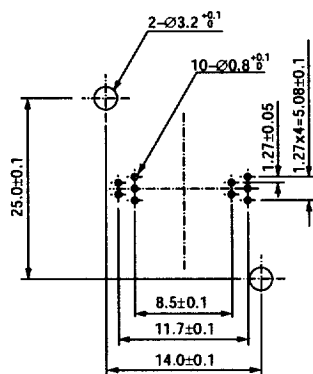
SOP IC51-0082-1024 (8 Pins)



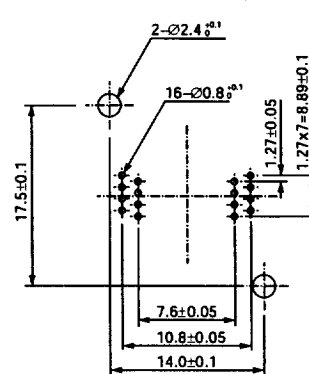
SOP IC51-0142-951 (14 Pins)



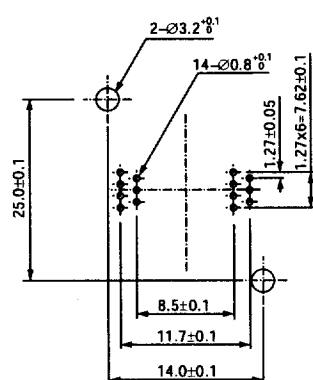
SOP IC51-0102-987 (10 Pins)



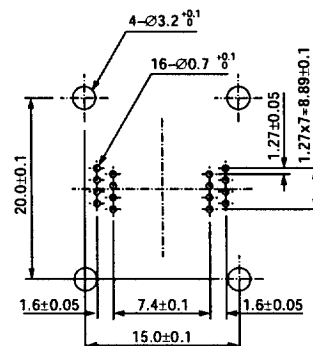
SOP IC51-0162-1042 (16 Pins)



SOP IC51-0142-1013 (14 Pins)



SOP IC51-0162-658 (16 Pins)

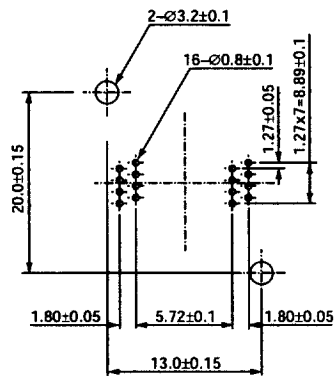


PC BOARD LAYOUTS

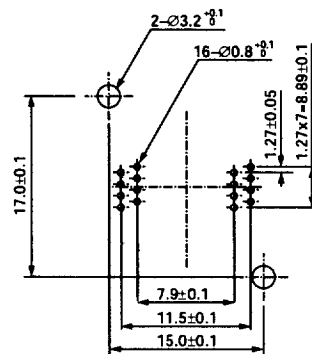
SOP

IC51 Series

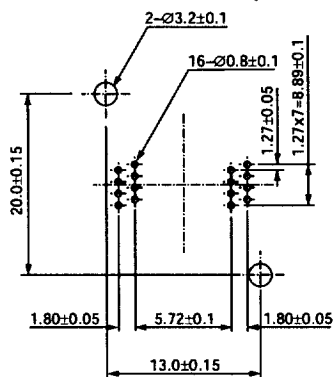
SOP IC51-0162-271-2 (16 Pins)



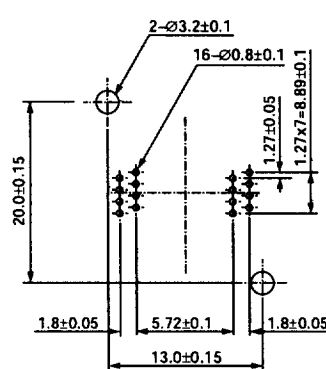
SOP IC51-0162-902-2 (16 Pins)



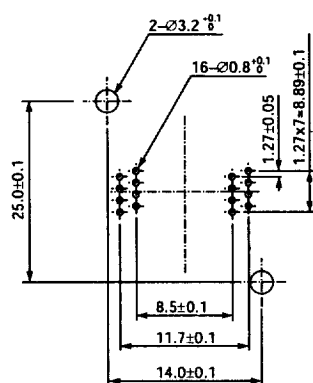
SOP IC51-0162-273-2 (16 Pins)



SOP IC51-0162-271-1 (16 Pins)



SOP IC51-0162-1025 (16 Pins)

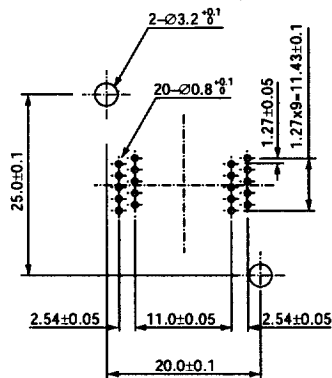


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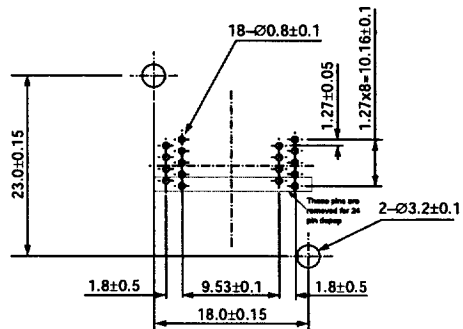
IC51 Series

PC BOARD LAYOUTS

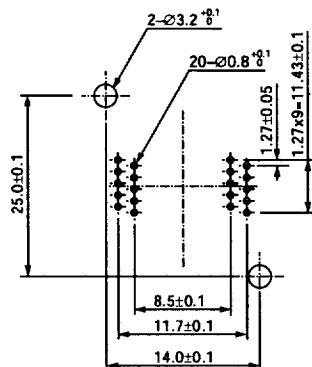
SOP IC51-0202-714 (20 Pins)



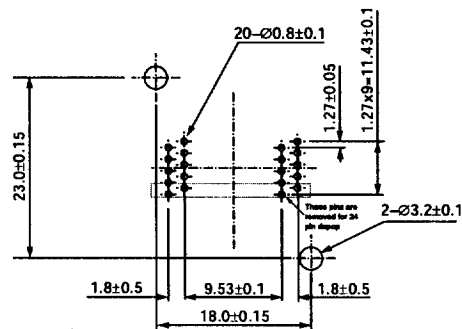
SOP IC51-347.KS-6768 (18 Pins)



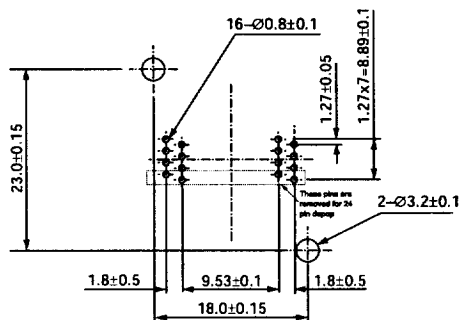
SOP IC51-0202-1026 (20 Pins)



SOP IC51-0202-347 (20 Pins)



SOP IC51-347.KS-7704 (16 Pins)

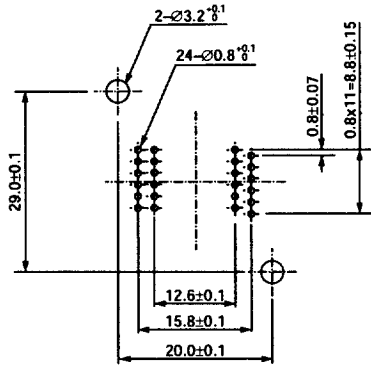


PC BOARD LAYOUTS

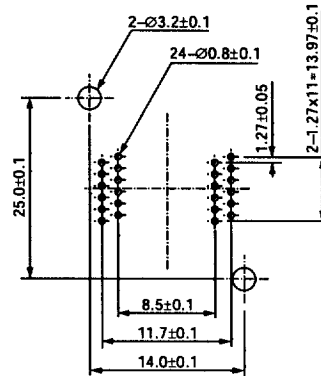
SOP

IC51 Series

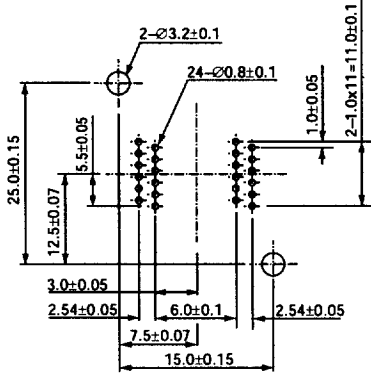
SOP IC51-0242-577 (24 Pins)



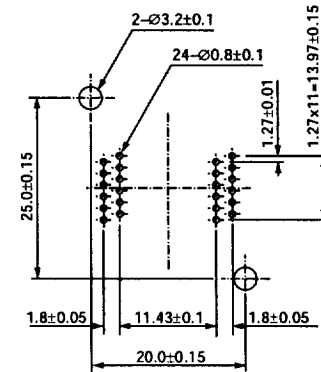
SOP IC51-0242-793 (24 Pins)



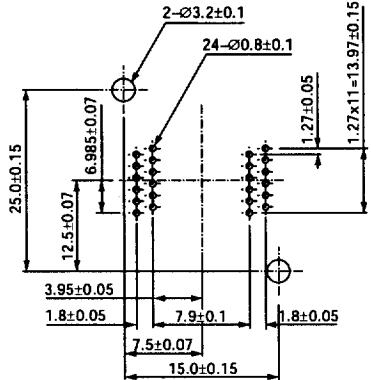
SOP IC51-0242-310-1 (24 Pins)



SOP IC51-0242-269-1 (24 Pins)



SOP IC51-0242-303-1 (24 Pins)

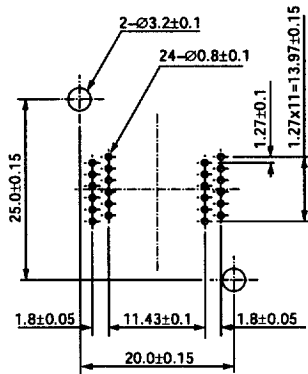


SOP

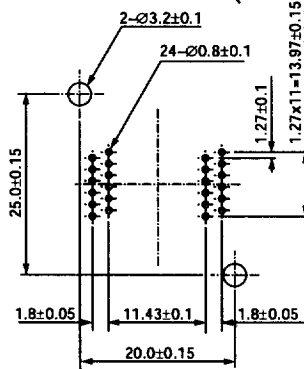
IC51 Series

PC BOARD LAYOUTS

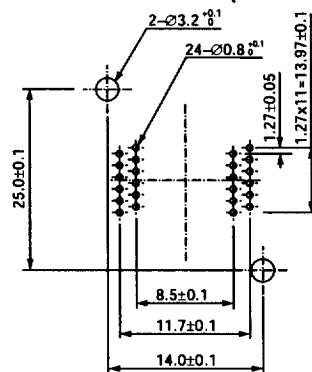
SOP IC51-0242-269-2 (24 Pins)



SOP IC51-0242-367-1 (24 Pins)



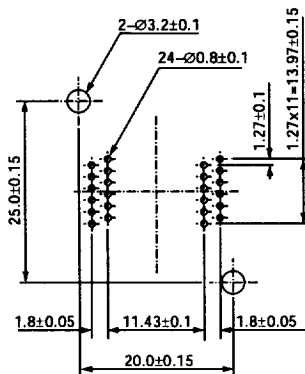
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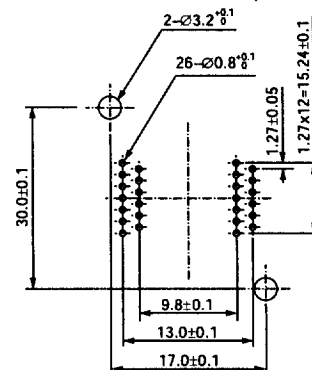
SOP IC51-0242-270-1 (24 Pins)

SOP IC51-0242-270-2 (24 Pins)

SOP IC51-0242-270-3 (24 Pins)



SOP IC51-0262-1339 (26 Pins)

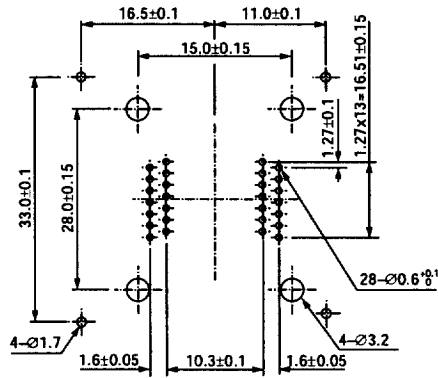


PC BOARD LAYOUTS

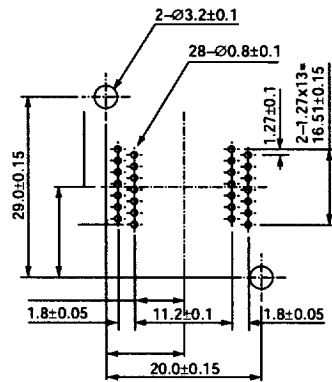
SOP

IC51 Series

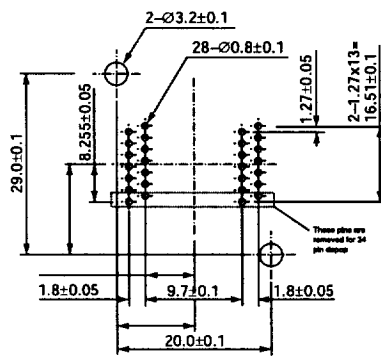
SOP IC51-0282-165 (28 Pins)



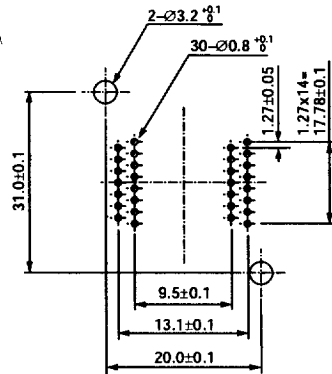
SOP IC51-0282-474 (28 Pins)



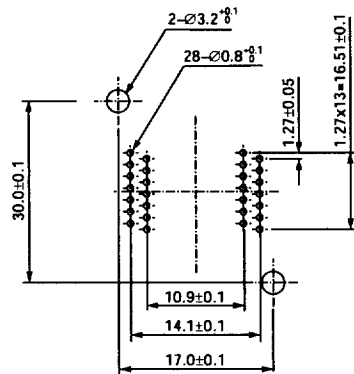
SOP IC51-334-1.KS-6411 (24 Pins)
SOP IC51-0282-334-1 (28 Pins)



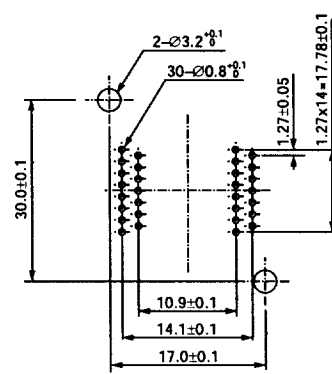
SOP IC51-0302-904 (30 Pins)



SOP IC51-0282-986 (28 Pins)



SOP IC51-0302-1017 (30 Pins)

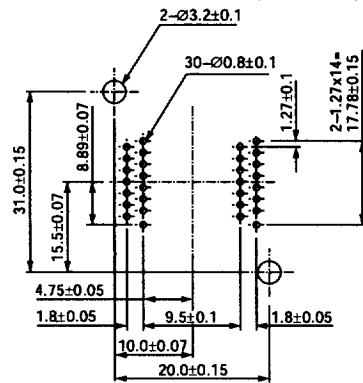


SOP

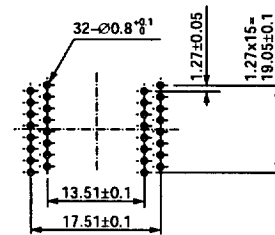
IC51 Series

PC BOARD LAYOUTS

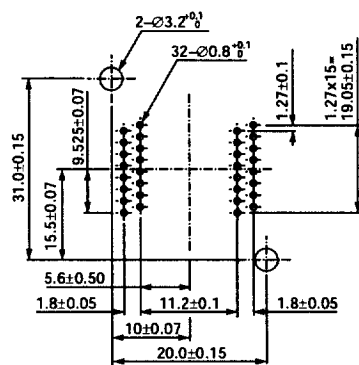
SOP IC51-0302-371-2 (30 Pins)



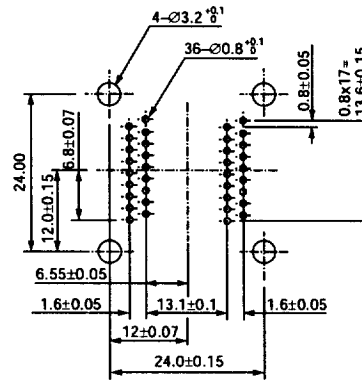
SOP IC51-0322-667-2 (32 Pins)



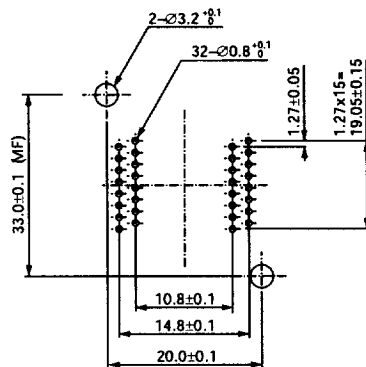
SOP IC51-0322-304-2 (32 Pins)



SOP IC51-0362-309 (36 Pins)



SOP IC51-0322-937 (32 Pins)

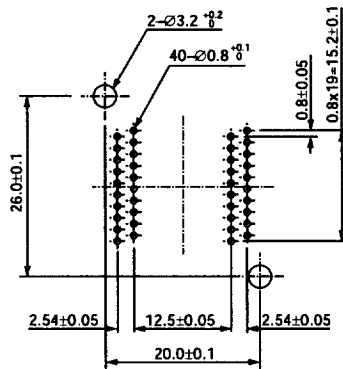


PC BOARD LAYOUTS

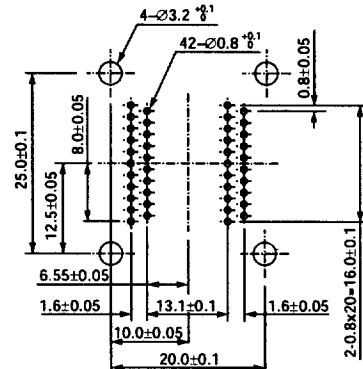
SOP

IC51 Series

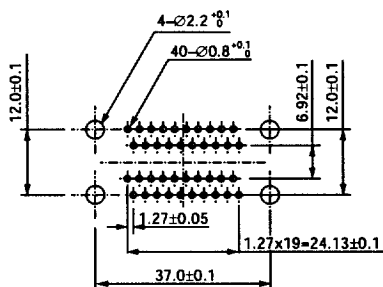
SOP IC51-0402-708 (40 Pins)



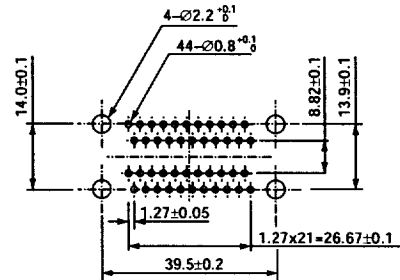
SOP IC51-0422-393 (42 Pins)



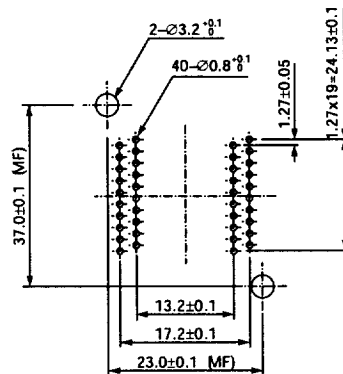
SOP IC51-0402-1197 (40 Pins)



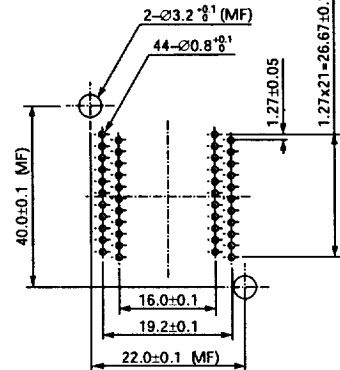
SOP IC51-0442-1208 (44 Pins)



SOP IC51-0402-991 (40 Pins)



SOP IC51-0442-1315 (44 Pins)

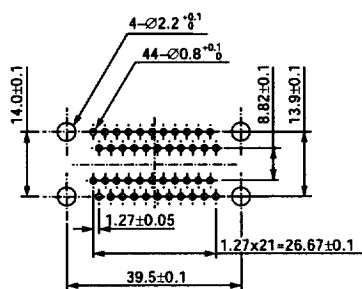


SOP, SSOP

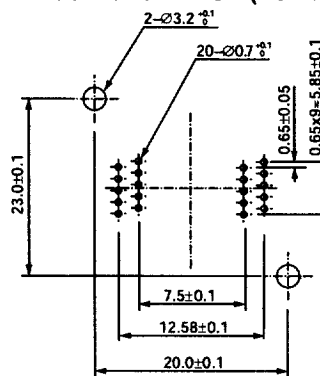
IC51 Series

PC BOARD LAYOUTS

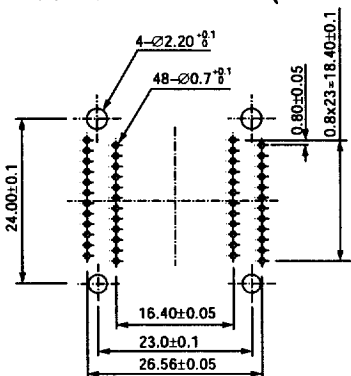
SOP IC51-0442-1536 (44 Pins)



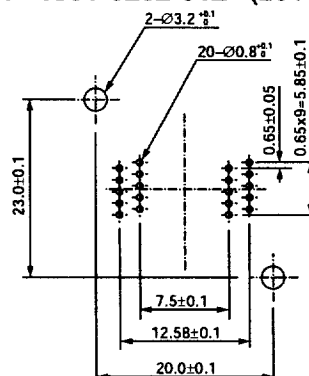
SSOP IC51-0202-779 (20 Pins)



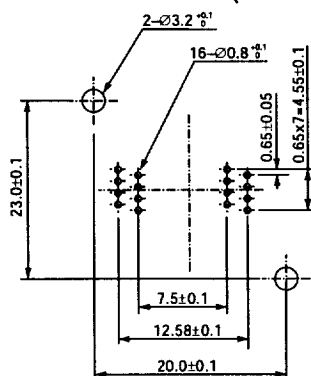
SOP IC51-0482-1009-2 (48 Pins)



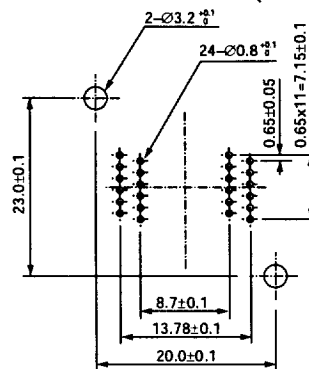
SSOP IC51-0202-912 (20 Pins)



SSOP IC51-0162-911 (16 Pins)



SSOP IC51-0242-913 (24 Pins)

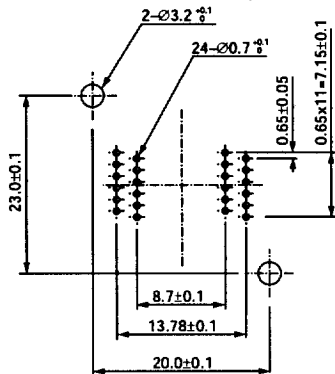


PC BOARD LAYOUTS

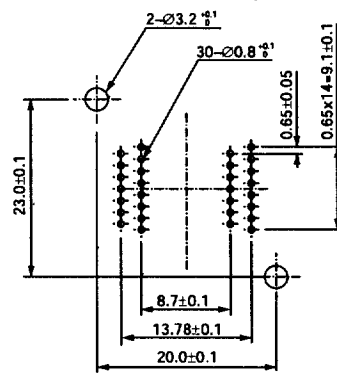
SSOP

IC51 Series

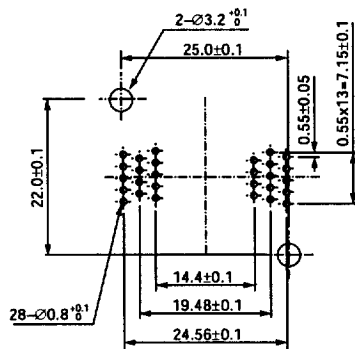
SSOP IC51-0242-761 (24 Pins)



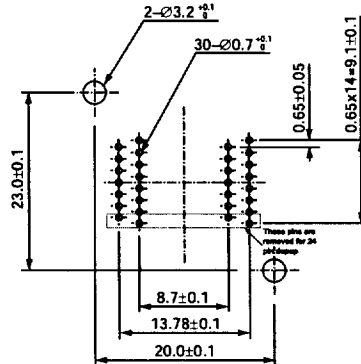
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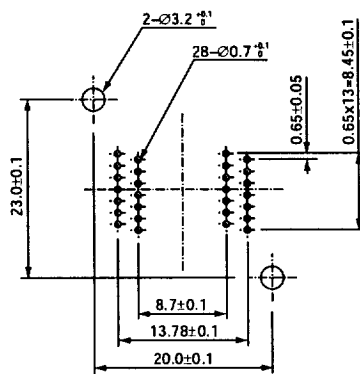
SSOP IC51-0282-673-1 (28 Pins)



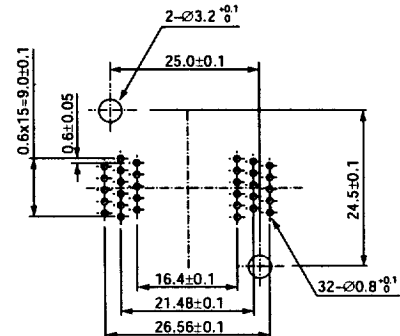
SSOP IC51-0302-755 (30 Pins)



SSOP IC51-755.KS-13330 (28 Pins)



SSOP IC51-0322-910 (32 Pins)



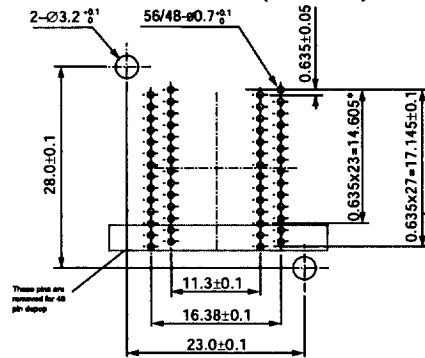
SSOP, TSOP

IC51 Series

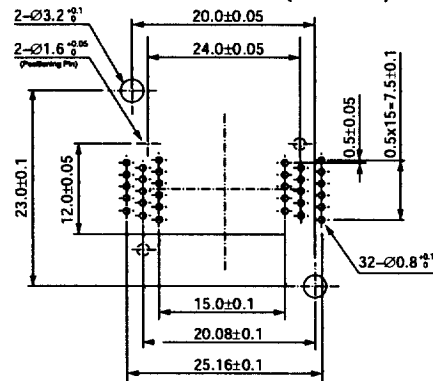
PC BOARD LAYOUTS

SSOP IC51-1387.KS-15186 (48 Pins)*

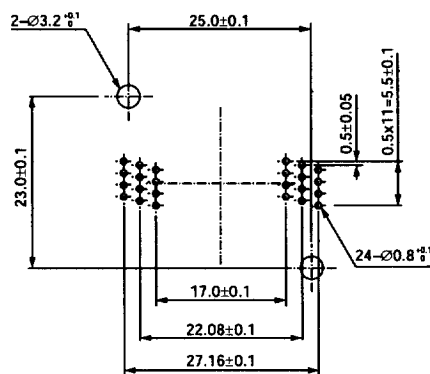
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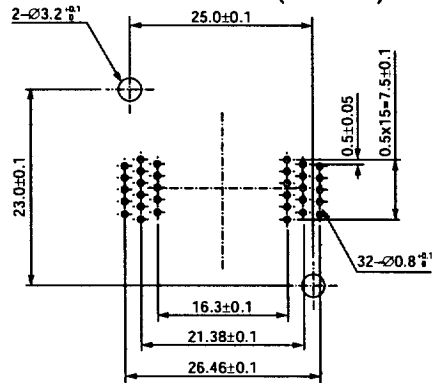
TSOP IC51-0322-1031-1 (32 Pins)



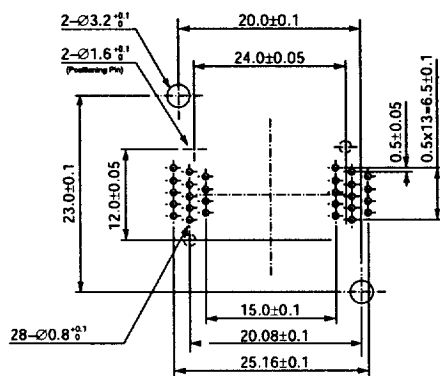
TSOP IC51-0242-1006-1 (24 Pins)



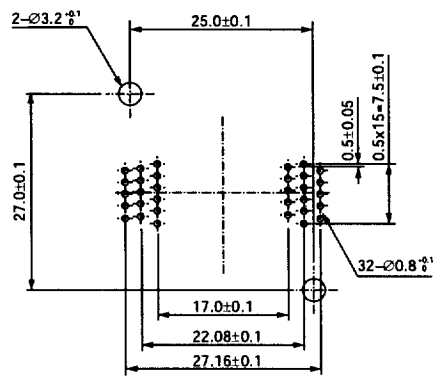
TSOP IC51-0322-883-1 (32 Pins)



TSOP IC51-0282-1032-1 (28 Pins)



TSOP IC51-0322-1219 (32 Pins)

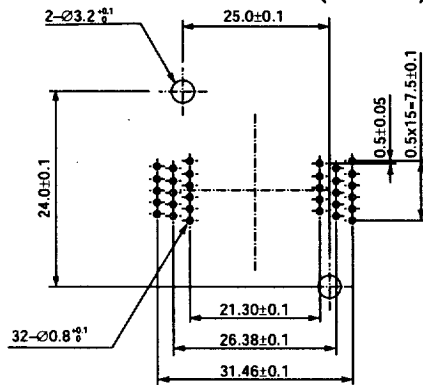


PC BOARD LAYOUTS

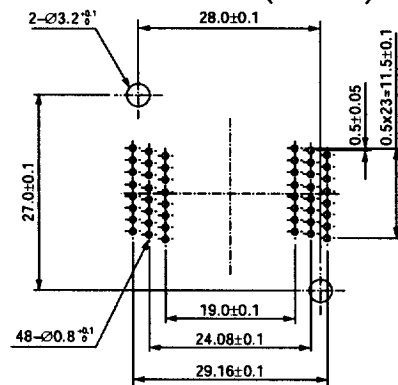
TSOP

IC51 Series

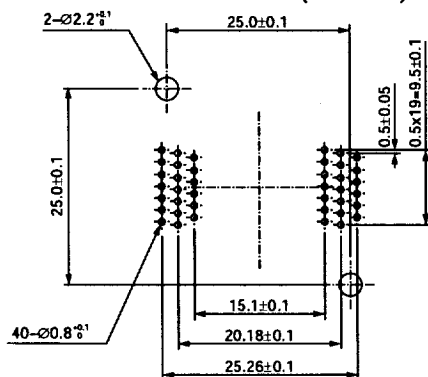
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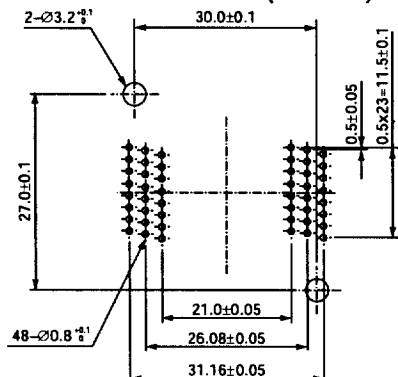
TSOP IC51-0482-1099 (48 Pins)



TSOP IC51-0402-1557 (40 Pins)



TSOP IC51-0482-2018 (48 Pins)



TSOP IC51-0402-1174-1 (40 Pins)

