

IC149 Series (SMT)

QFP/TQFP - 144 Pins (36x36) 0.5mm pitch


Specifications

Insulation Resistance:	500MW at 150V DC
Withstanding Voltage:	100V _{eff} to 700V _{eff} for 1 minute
Contact Resistance:	30mW max. at 10mA and 20mV
Operating Temp. Range:	-25°C to +85°C
Reflow-soldering Temp.:	220°C for 60 seconds
Mating Cycles:	20 insertions maximum
Solvent Durability:	Freon
Allowable Torque (max.):	- for 1-time screw connection = max 0.147 Nm - for repetitive screw connection = min 0.078 Nm max 0.098 Nm

Materials and Finish

Housing: Polyphenylenesulfide (PPS) glass filled UL94V-0

Contact: Beryllium Copper (BeCu)

Plating: SnPb 2.0 ~ 4.0µm over 2.5 ~ 4.5µm Ni = S5  RoHS

Au 0.3µm min. over 2.5 ~ 4.5µm Ni = B5

Part Number (Details)

IC149 - 144 - *45 - B5

Series No.

No. of Contact Pins

Positioning Pins:

0 = Without Pins

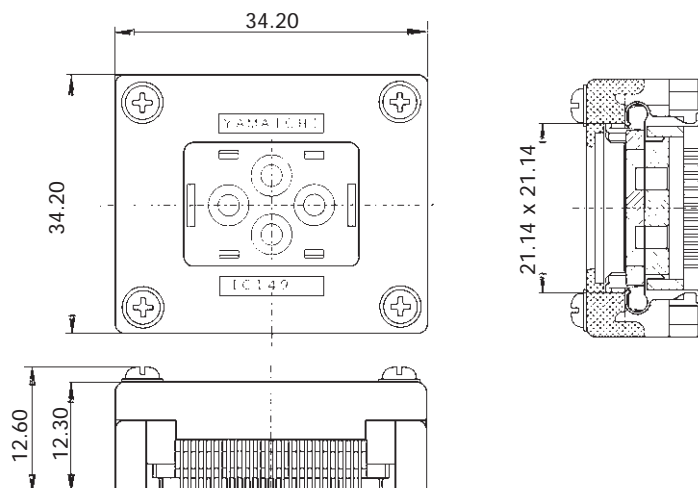
1 = With Pins

Contact Plating:

B5 = Au over Ni

Compatible Emulation-Adapter ICP-144-1

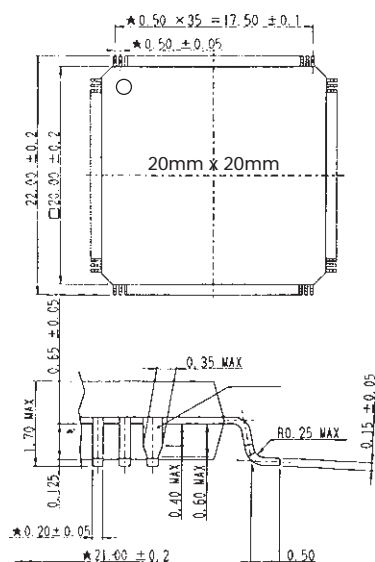
Outline Socket Dimensions (Reference Only)



Remarks

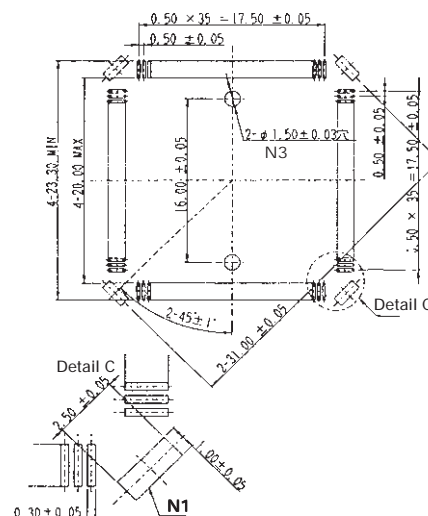
1. Ensure a clean contact area. Fluxes, dust and other impurities may cause corrosion and contact problems.
2. This Socket is not for automatic production. It is particularly suitable for the development of software stored in ROM and for testing LSI-IC's.
3. Careful attention must be taken when fixing the Socket, since it is entirely made from thermoplastic material. If the max. torque is exceeded, the Socket will be damaged beyond repair.
4. If using the Socket with an Adapter, please use the gold-plated Socket version.

IC - Dimensions



Socket PCB-Layout

Top View from Socket



Notes

- N1: Metal soldering Tab Clip. Socket may be stabilized by soldering (Reflow) in these 4 areas.
N3: These holes are only necessary for use with positioning pins.

IC149 / ICP Series

Emulation-Adapter (144 pins)

Specifications

Insulation Resistance:	500MΩ at 150V DC
Withstanding Voltage:	700V AC for 1 minute
Contact Resistance:	30mΩ max. at 10mA and 20mV
Operating Temp. Range:	-25°C to +85°C
Reflow-soldering Temp.:	220°C for 60 seconds
Mating Cycles:	20 insertions maximum
Allowable Torque (max.):	- for 1-time screw connection = max 0.147 Nm - for repetitive screw connection = min 0.078 Nm max 0.098 Nm

Adapter Part Number

ICP-144-1

Compatible Socket (Part No.)

IC149-144-045-B5 (w/o pos. pins)

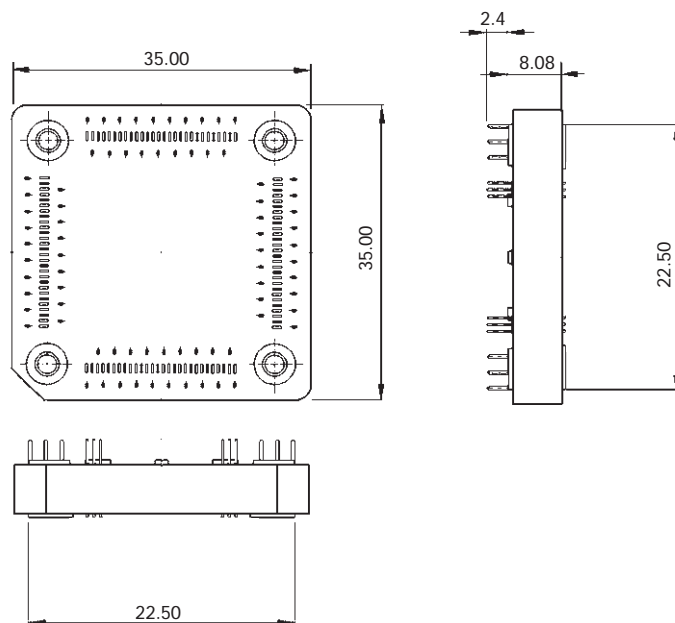
IC149-144-145-B5 (with pos. pins)

Materials and Finish

Housing: PTES, glass filled UL94V-0
Contact: Phosphor Bronze
Plating: Au 0.3μm min. over 2.5 ~ 4.5μm Ni



Outline Adapter Dimensions (Reference Only)

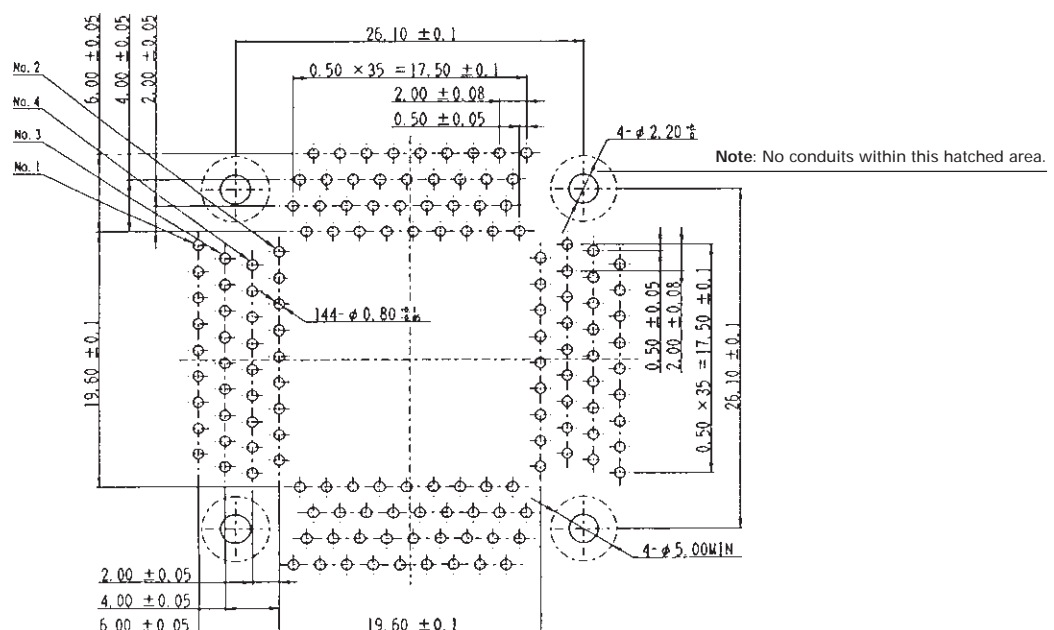


Remarks

1. Ensure a clean contact area. Fluxes, dust and other impurities may cause corrosion and contact problems.
2. Careful attention must be taken when fixing the Adapter, since it is made from thermoplastic material. By exceeding the maximum torque a perfect performance can no longer be guaranteed.

Adapter PCB-Layout (IC149-144-*45-B5)

Top View from Soldering Side



Mouser Electronics

Authorized Distributor

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