Click here to go back to socket part number overview

IC149 Series (SMT)

QFP/TQFP - 176 Pins (44x44) 0.5mm pitch

Specifications

Insulation Resistance:	500MΩ at 150V DC
Withstanding Voltage:	100V_{eff} to 700V_{eff} 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
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: Au 0.3µm min. over 2.5 ~ 4.5µm Ni = B5

Part Number (for IC-use)

IC149 - 176 - *66 - B5

Series No.

No. of Contact Pins

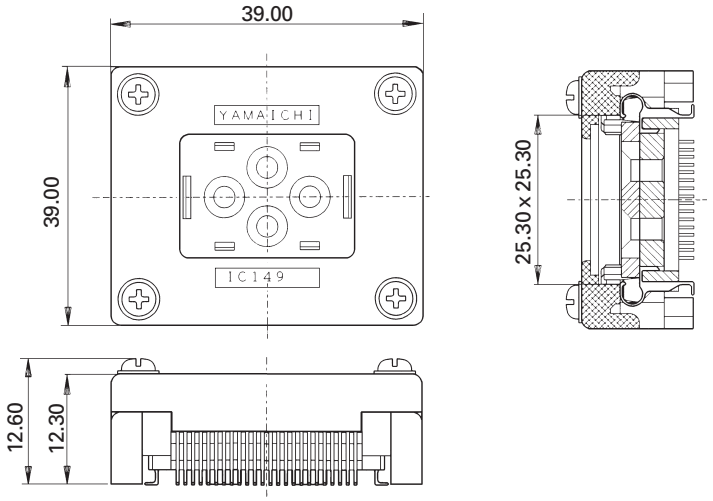
Positioning Pins:
0 = Without Pins
1 = With Pins

Contact Plating:
B5 = Au over Ni

Compatible Emulation-Adapter

not available

Outline Socket Dimensions (Reference Only)



Remarks

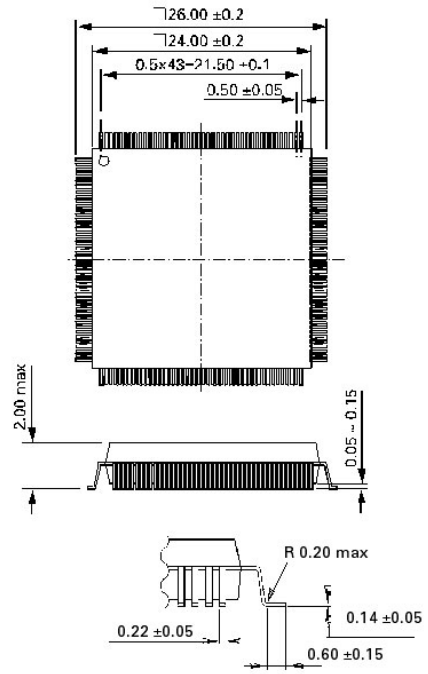
1. Ensure a clean contact area. Fluxes, dust and other impurifications may cause corrosion and contact problems.

2. This Socket is not for automatic production. It is particulary 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.

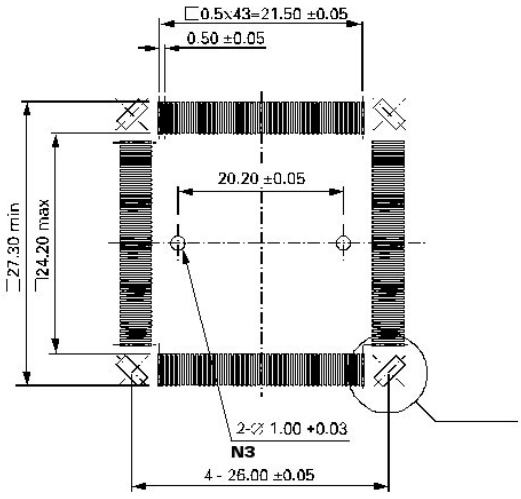
4. If using the Socket with an Adapter, please use the gold-plated Socket version.

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.

Click here to go back to socket part number overview

IC149 Series (SMT)

QFP/TQFP - 272 Pins (68x68) 0.5mm pitch

Specifications

Insulation Resistance:	500MΩ at 150V DC
Withstanding Voltage:	$100V_{eff}$ to $700V_{eff}$ 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
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: Au 0.3µm min. over 2.5 ~ 4.5µm Ni = B5

Part Number (for IC-use)

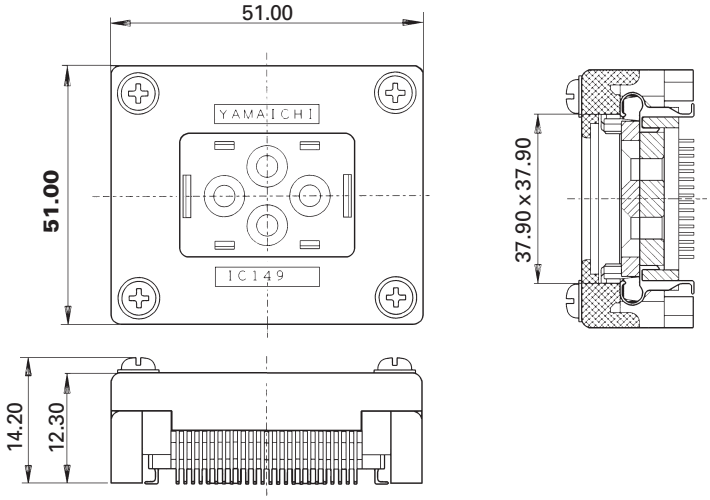
IC149 - 272 - *29 - BB5

- Series No.
- No. of Contact Pins
- Positioning Pins:
  0 = Without Pins
  1 = With Pins
- Contact Plating:
  B5 = Au over Ni

Compatible Emulation-Adapter

not available

Outline Socket Dimensions (Reference Only)



Remarks

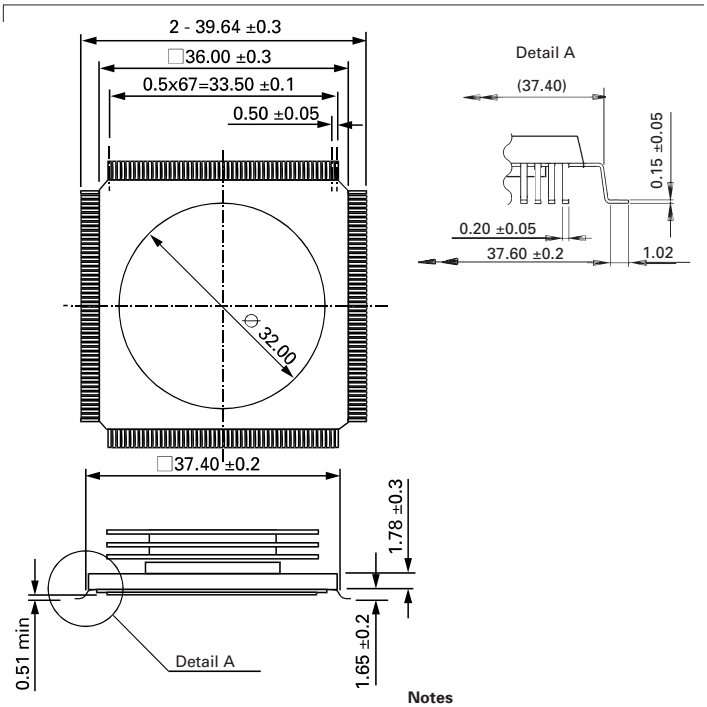
1. Ensure a clean contact area. Fluxes, dust and other impurifications may cause corrosion and contact problems.

2. This Socket is not for automatic production. It is particulary 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.

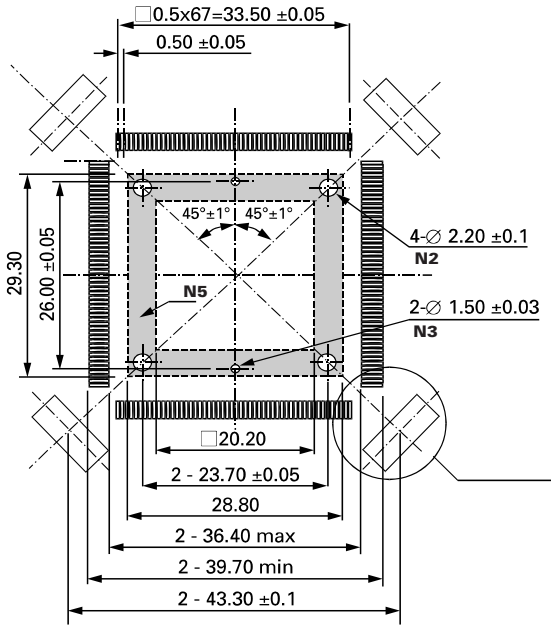
4. If using the Socket with an Adapter, please use the gold-plated Socket version.

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.
N2: These holes are only necessary when fixing the Socket with screws.
N3: These holes are only necessary for use with positioning pins.
N5: No conduits within this hatched area.

Click here to go back to socket part number overview

IC149 Series (SMT)

QFP/TQFP - 208 Pins (52x52) 0.5mm pitch

Specifications

Insulation Resistance:	500MΩ at 150V DC
Withstanding Voltage:	100V_{eff} to 700V_{eff} 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
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: Au 0.3µm min. over 2.5 ~ 4.5µm Ni = B5
.

Part Number (for IC-use)

IC149 - 208 - *61 - B5

Series No.

No. of Contact Pins

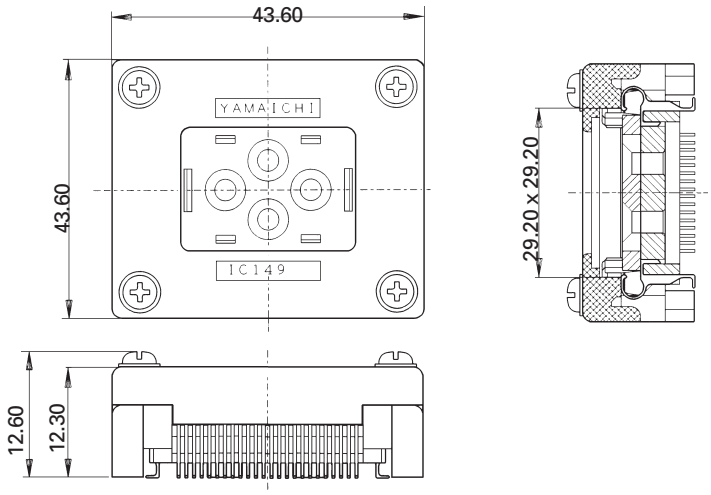
Positioning Pins:
0 = Without Pins
1 = With Pins

Contact Plating:
B5 = Au over Ni

Compatible Emulation-Adapter

not available

Outline Socket Dimensions (Reference Only)



Remarks

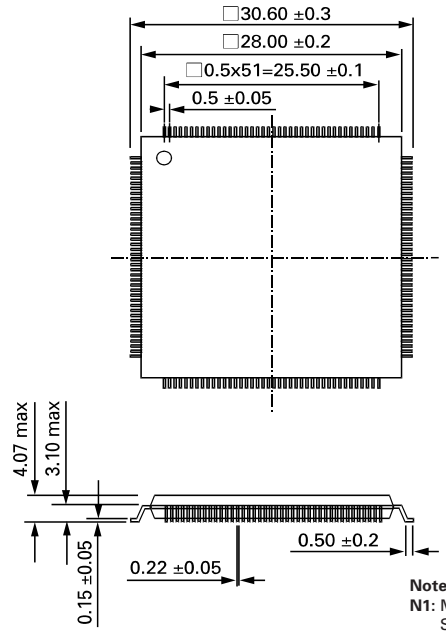
1. Ensure a clean contact area. Fluxes, dust and other impurifications may cause corrosion and contact problems.

2. This Socket is not for automatic production. It is particulary 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.

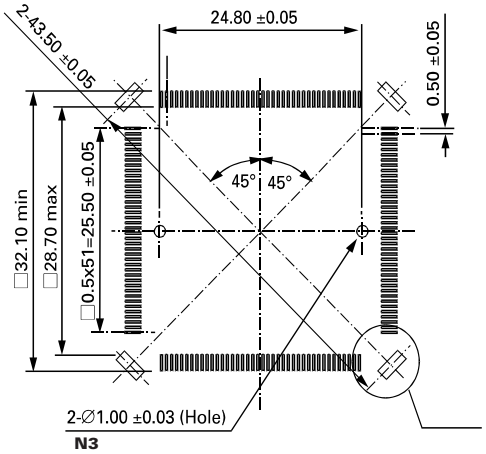
4. If using the Socket with an Adapter, please use the gold-plated Socket version.

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.

Mouser Electronics

Authorized Distributor

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Yamaichi Electronics:

IC149-176-066-B5 IC149-208-061-B5