# IC149 Series (SMT)

# QFP/TQFP - 64 Pins (10x10) 0.5mm pitch

# Specifications

Insulation Resistance:	50
Withstanding Voltage:	10
Contact Resistance:	30
Operating Temp. Range:	-2
Reflow-soldering Temp.:	22
Mating Cycles:	20
Solvent Durability:	Fr
Allowable Torque (max.):	- f

 $\begin{array}{l} \text{500M}\Omega \text{ at 150V DC} \\ \text{100V}_{\text{eff}} \text{ to 700V}_{\text{eff}} \text{ for 1 minute} \\ \text{30m}\Omega \text{ max. at 10mA and 20mV} \\ \text{-25^{\circ}C to +85^{\circ}C} \\ \text{220^{\circ}C for 60 seconds} \\ \text{20 insertions maximum} \\ \text{Freon} \\ \text{- for 1-time screw connection} &= \max 0.147 \text{ Nm} \\ \text{- for repetitive screw connection} &= \min 0.078 \text{ Nm} \\ \text{max 0.098 Nm} \end{array}$ 

### 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

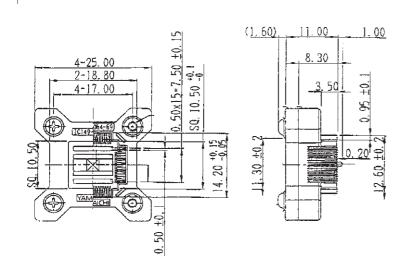
RoHS

# Part Number (Details) IC149 - 064 - \*69 - 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)



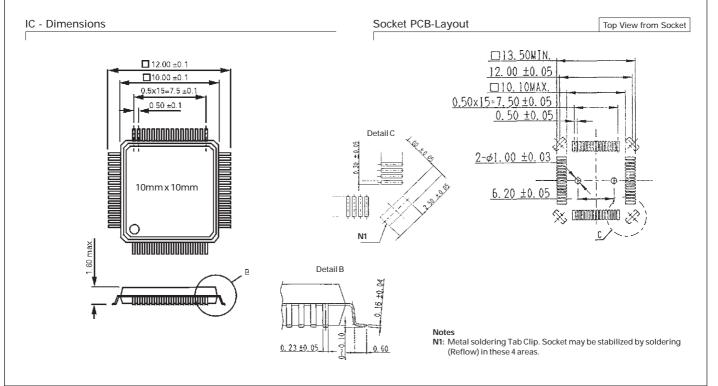
### Remarks

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

 ${\bf 2}.$  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.



# IC149 Series (SMT)

# QFP/TQFP - 64 Pins (16x16) 0.5mm pitch

# Specifications

Insulation Resistance:	500MΩ at 150V DC
Withstanding Voltage:	100V <sub>eff</sub> to 700V <sub>eff</sub> for 1 minute
Contact Resistance:	$30m\Omega$ 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

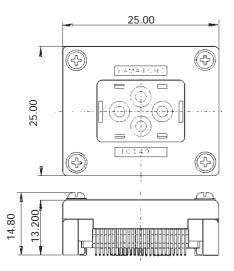
Housing: Polyphenylenesulfide (PPS) glass filled UL94V-0 Contact: Beryllium Copper (BeCu) Plating: Au 0.3µm min. over 2.5 ~ 4.5µm Ni = B5

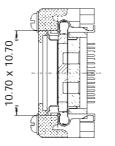
RoHS

# Part Number (Details)IC149-064-\*75 - B5Series No.---800 - 100

# Compatible Emulation-Adapter ICP-064-6

# Outline Socket Dimensions (Reference Only)





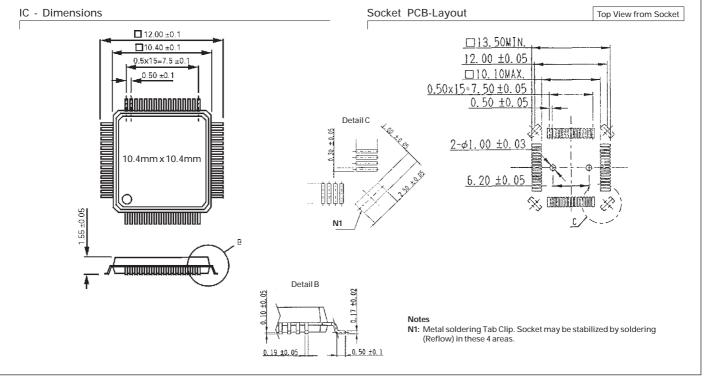
### Remarks

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.

 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.



# IC149 / ICP Series

# Emulation-Adapter (64 pins)

Adapter Part Number

# Specifications

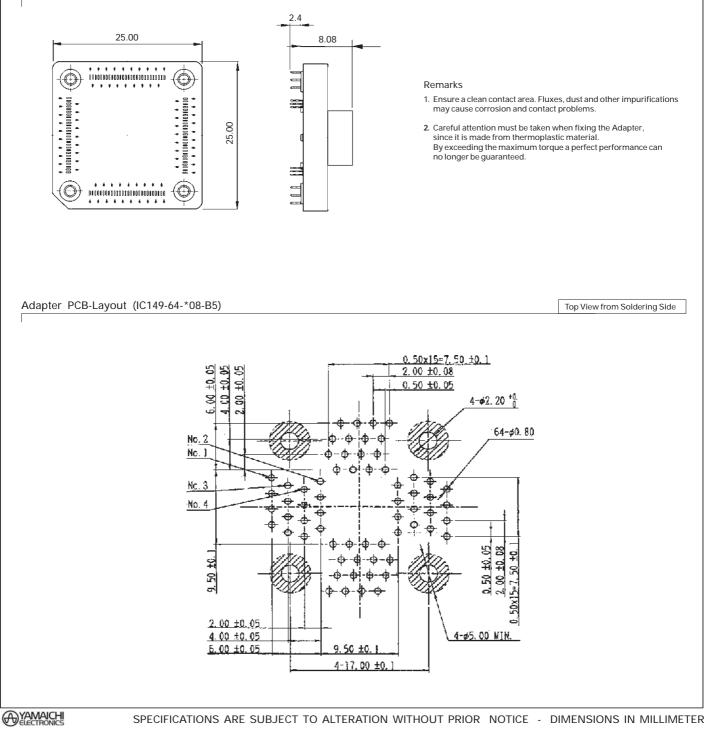
			1
Insulation Resistance:	500MΩ at 150V DC		ICP-064-6
Withstanding Voltage:	700V AC for 1 minute		
Contact Resistance:	$30m\Omega$ max. at $10mA$ and $20mV$		
Operating Temp. Range:	-25°C to +85°C		
Reflow-soldering Temp.:	220°C for 60 seconds		Compatible Socket (Part No.)
Mating Cycles:	20 insertions maximum		IC149-64-075-B5 (w/o pos. pins)
Allowable Torque (max.):	- for 1-time screw connection = max	x 0.147 Nm	
	- for repetitive screw connection = min		IC149-64-175-B5 (with pos. pins)
	max	x 0.098 Nm	

## Materials and Finish

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

ım Ni **RoHS** 

# Outline Adapter Dimensions (Reference Only)



# IC149 Series (SMT)

# QFP/TQFP - 64 Pins (16x16) 0.8mm pitch

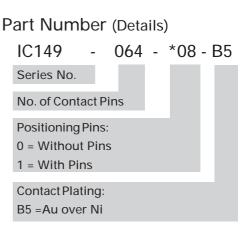
# Specifications

Insulation Resistance:	500MΩ at 150V DC
Withstanding Voltage:	100V <sub>eff</sub> to 700V <sub>eff</sub> for 1 minute
Contact Resistance:	$30m\Omega$ 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

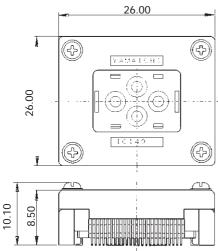
Housing: Polyphenylenesulfide (PPS) glass filled UL94V-0 Contact: Beryllium Copper (BeCu) Plating: Au 0.3µm min. over 2.5 ~ 4.5µm Ni = B5

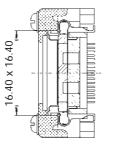
RoHS



# Compatible Emulation-Adapter ICP-064-2

## Outline Socket Dimensions (Reference Only)





### Remarks

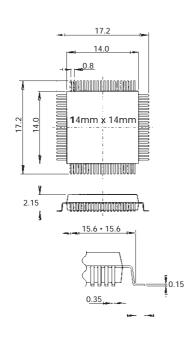
1. Ensure a clean contact area. Fluxes, dust and other impurifications may cause corrosion and contact problems.

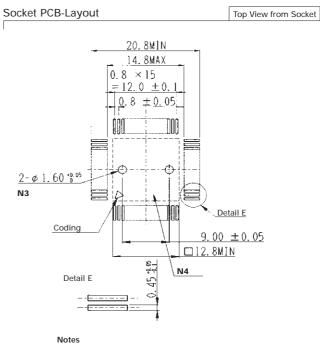
2. This Socket is not for automatic production. It is particulary suitable for the development of software stored in ROM and for testing LSI-IC's.

 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.







N3: These holes are only necessary for use with positioning pins. N4: The Socket may be glued to the PC Board within this area.

# IC149 / ICP Series

# Emulation-Adapter (64 pins)

Adapter Part Number

# **Specifications**

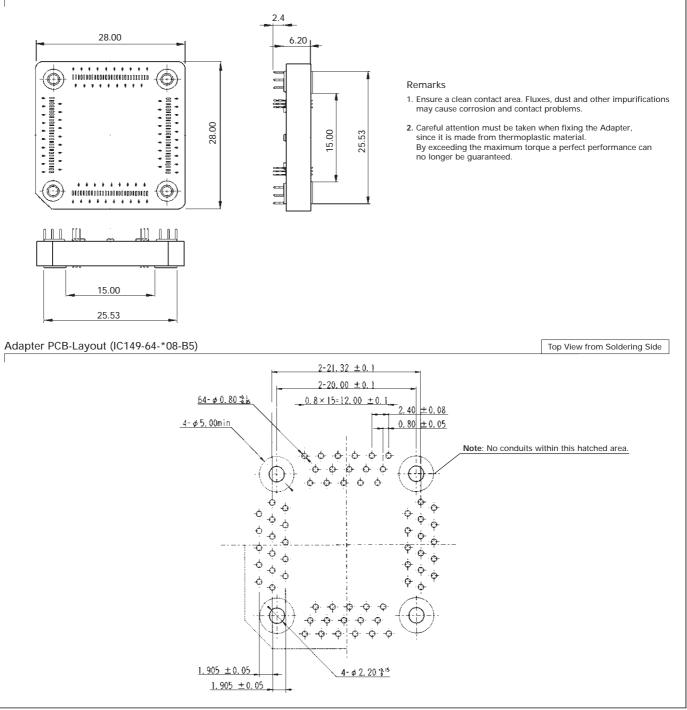
		•
Insulation Resistance:	500MΩ at 150V DC	ICP-064-2
Withstanding Voltage:	700V AC for 1 minute	ICF-004-2
Contact Resistance:	$30m\Omega$ max. at 10mA and 20mV	
Operating Temp. Range:	-25°C to +85°C	
Reflow-soldering Temp.:	220°C for 60 seconds	Compatible Socket (Part No.)
Mating Cycles:	20 insertions maximum	10140.64.000 DE (
Allowable Torque (max.):	- for 1-time screw connection = max 0.147 Nm	IC149-64-008-B5 (w/o pos. pins)
	- for repetitive screw connection = min 0.078 Nm	IC149-64-108-B5 (with pos. pins)
	max 0.098 Nm	

# 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)



# IC149 Series (SMT)

# QFP/TQFP - 64 Pins (13x19) 1.0mm pitch

# **Specifications**

Insulation Resistance: Withstanding Voltage: Contact Resistance: Operating Temp. Range: -25°C to +85°C Reflow-soldering Temp.: 220°C for 60 seconds Mating Cycles: Solvent Durability:

 $500M\Omega$  at 150V DC  $100V_{eff}$  to  $700V_{eff}$  for 1 minute  $30m\Omega$  max. at 10mA and 20mV20 insertions maximum Freor

### 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

RoHS

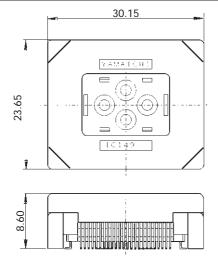
### Extra Feature: Clipped Cover

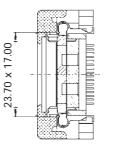
# Part Number (for IC-use)



# **Compatible Emulation-Adapter** not available

### Outline Socket Dimensions (Reference Only)





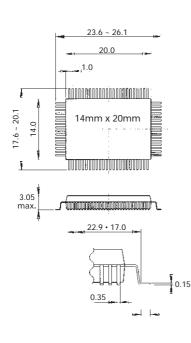
### Remarks

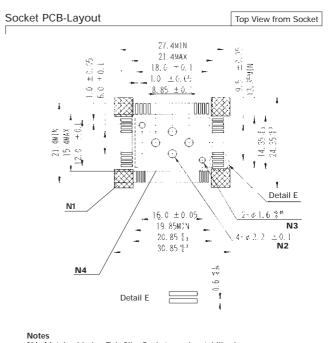
1. Ensure a clean contact area. Fluxes, dust and other impurifications may cause corrosion and contact problems.

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







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

N4: The Socket may be glued to the PC Board within this area.

# **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Yamaichi Electronics: IC149-064-075-B5 IC149-064-008-B5 IC149-064-001-B5