

QFP Prototyping SMT

IC149 Series

IC149-

Socket Series

See part numbers, number of contacts, and pitches listed below under characteristics.

Options (All part numbers use the same symbols. A symbol may be in a different location, but it still represents the same option.):

* Replace with "1" to Order With Positioning Pin or with "0" to Order Without Positioning Pin.

Replace with "S" to Order With SnPb or with "B" to Order With Au Plate.

+ Leave Blank to Order With Solder Tabs or with "1" to Order Without Solder Tabs.

▲ Only available without solder tabs.
■ Only available with solder tabs.

Ordering Information

Characteristics

Current Rating: 0.5A
Insulation Resistance: See Characteristics Chart Below
Withstanding Voltage: See Characteristics Chart Below
Contact Resistance: 30mΩ Max. at 10mA/20mV
Operating Temperature: -25°C ~ +85°C
Mating Cycles: 20 Insertions

Materials and Finish

Insulator: High Temp Thermoplastic-UL94V-0
Contact: Copper Alloy
Plating: Contacts: SnPb or Au over Ni
Terminals: SnPb or Au over Ni
Accessories: Covers (see page 64)
Screws (see page 64)
Emulation Adapters (see page 62)

Features

1. Zero insertion / extraction force.
2. Two-piece socket.
3. Optional solder tabs.
4. IR/vapor-phase compatibility.

Characteristics

Part Number (1)	Number of Contacts	Pitch (mm)	Insulation Resistance	Withstanding Voltage	Cover Type (2)	Emulation Adaptor
IC149-044-*49-#5+	44	0.80	500MΩ	150V AC	S	ICP-044-2
IC149-044-*52-#5+	44	0.80	500MΩ	150V AC	S	N/A
IC149-048-*56-#5+	48	0.80	500MΩ	150V AC	S	N/A
IC149-064-*01-#5▲	64	1.00	700MΩ	700V AC	C	N/A
IC149-064-*08-#5▲	64	0.80	500MΩ	300V AC	S	ICP-064-2
IC149-064-*69-#5+	64	0.50	500MΩ	150V AC	S	N/A
IC149-080-*12-#5▲	80	0.80	500MΩ	300V AC	S	ICP-080-3-✦
IC149-080-*17-#5▲	80	0.65	500MΩ	150V AC	S	ICP-080-4
IC149-080-*21-#5▲	80	0.80	500MΩ	300V AC	S	ICP-080-5-✦
IC149-080-*30-#5+	80	0.50	500MΩ	100V AC	S	ICP-080-6-✦
IC149-080-*31-#5+	80	0.50	500MΩ	100V AC	S	ICP-080-6-✦
IC149-080-*51-#5+	80	0.65	500MΩ	150V AC	S	ICP-080-7
IC149-080-*58-#5+	80	0.50	500MΩ	150V AC	S	ICP-080-6-✦
IC149-080-*59-#5+	80	0.50	500MΩ	150V AC	S	ICP-080-6-✦
IC149-100-*05-#5▲	100	0.65	500MΩ	700V AC	C	Note (3)
IC149-100-*14-#5▲	100	0.65	500MΩ	150V AC	S	ICP-100-4-4
IC149-100-*25-#5+	100	0.50	500MΩ	100V AC	S	ICP-100-5-✦
IC149-100-*28-#5 (BQFP)▲	100	0.635	500MΩ	150V AC	S	ICP-100-6

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Characteristics

Part Number (1)	Number of Contacts	Pitch (mm)	Insulation Resistance	Withstanding Voltage	Cover Type (2)	Emulation Adaptor
IC149-100-*54-#5+	100	0.50	500MΩ	150V AC	S	ICP-100-5-❖
IC149-100-*60-#5+	100	0.80	500MΩ	150V AC	S	N/A
IC149-005K13230 (SnPb only)▲	100	0.65	500MΩ	700V AC	C	N/A
IC149-*05K13231-#▲	100	0.65	500MΩ	700V AC	C	N/A
IC149-KS-10823-* (SnPb only)▲	100	0.65	500MΩ	150V AC	S	N/A
IC149-112-*42-#5▲	112	0.65	500MΩ	150V AC	S	ICP-112-2
IC149-112K14672-* (SnPb only)▲	112	0.65	500MΩ	150V AC	S	N/A
IC149-120-*43-#5+	120	0.40	500MΩ	150V AC	S	ICP-120-2
IC149-132-*15-#5▲	132	0.635	500MΩ	150V AC	S	N/A
IC149-144-*45-#5+	144	0.50	500MΩ	150V AC	S	ICP-144-1
IC149-144K11453-*#■	144	0.65	500MΩ	150V AC	S	ICP-160-1
IC149-152KS11226-*#■	152	0.65	500MΩ	150V AC	S	ICP-160-1
IC149-160-*23-#5■	160	0.65	500MΩ	150V AC	S	ICP-160-1
IC149-160K14577-*#■	160	0.65	500MΩ	150V AC	S	N/A
IC149-160-*50-#5+	160	0.50	500MΩ	150V AC	S	N/A
IC149-176-*66-#5+	176	0.50	500MΩ	150V AC	S	N/A
IC149-208-*61-#5+	208	0.50	500MΩ	150V AC	S	N/A
IC149-240-*67-#5+	240	0.50	500MΩ	150V AC	S	N/A
IC149-256K12624-*#■	256	0.50	500MΩ	150V AC	S	N/A
IC149-272-*29-#5■	272	0.50	500MΩ	100V AC	S	N/A

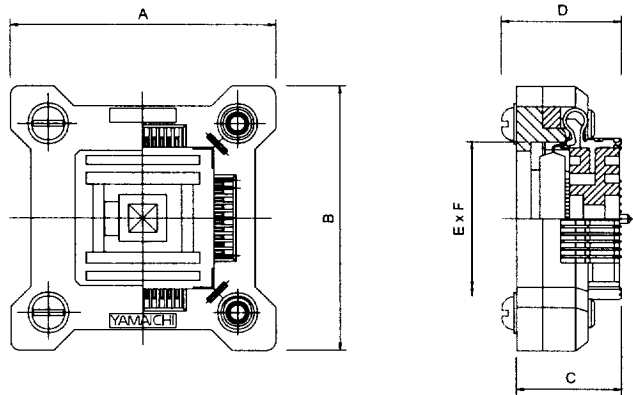
Notes:

- (1) Contact factory regarding heat sink packages
- (2) S = Screw Type C = Clip Type
- (3) Replace the IC149-100-*05- #5▲ with socket
IC149-KS11113-*▲ which mates with emulation
adaptor ICP-100-4t

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Socket Dimensions (Reference Only)



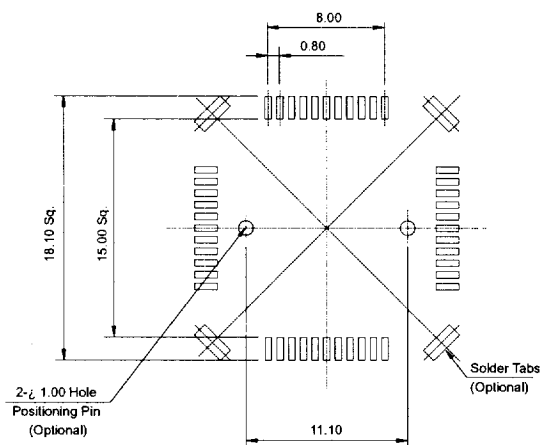
Part Number	Contacts	Pitch	A	B	C	D	E x F
IC149-044-*49-#5+	44	0.80	28.00	28.00	11.00	12.60	16.20 SQ.
IC149-044-*52-#5+	44	0.80	24.20	24.20	11.00	12.60	11.50 SQ.
IC149-048-*56-#5+	48	0.80	24.80	24.80	11.00	12.60	12.10 SQ.
IC149-064-*01-#5▲	64	1.00	30.15	23.65	8.60	—	23.00 x 17.00
IC149-064-*08-#5▲	64	0.80	26.00	26.00	8.50	10.10	16.20 SQ.
IC149-064-*69-#5+	64	0.50	25.00	25.00	11.00	12.60	11.30 SQ.
IC149-080-*12-#5▲	80	0.80	32.20	26.60	11.50	13.10	23.00 x 17.00
IC149-080-*17-#5▲	80	0.65	26.00	26.00	8.10	9.70	16.00 SQ.
IC149-080-*21-#5▲	80	0.80	32.20	26.60	8.50	10.10	22.10 x 16.10
IC149-080-*30-#5+	80	0.50	25.00	25.00	11.00	13.20	13.24 SQ.
IC149-080-*31-#5+	80	0.50	25.00	25.00	11.00	13.20	12.84 SQ.
IC149-080-*51-#5+	80	0.65	28.00	28.00	11.00	12.60	15.30 SQ.
IC149-080-*58-#5+	80	0.50	24.00	24.00	13.20	15.40	13.30 SQ.
IC149-080-*59-#5+	80	0.50	24.00	24.00	13.20	15.40	12.90 SQ.
IC149-100-*05-#5▲	100	0.65	30.15	23.65	8.60	—	23.00 x 17.00
IC149-100-*14-#5▲	100	0.65	32.20	26.60	8.50	10.10	22.40 x 16.40
IC149-100-*25-#5+	100	0.50	27.00	27.00	11.00	13.20	15.30 SQ.
IC149-100-*28-#5 (BQFP)▲	100	0.635	32.00	32.00	11.15	12.75	21.20 SQ.
IC149-100-*54-#5+	100	0.50	27.00	27.00	13.20	15.40	15.30 SQ.
IC149-100-*60-#5+	100	0.80	38.90	38.90	12.30	12.60	26.20 SQ.
IC149-005K13230 (SnPb only)▲	100	0.65	30.15	23.65	8.60	—	23.00 x 17.00
IC149-*05K13231-#▲	100	0.65	30.15	23.65	8.60	—	23.00 x 17.00
IC149-KS-10823-* (SnPb only)▲	100	0.65	32.20	26.60	8.50	10.10	22.40 x 16.40
IC149-112-*42-#5▲	112	0.65	32.00	32.00	11.15	12.75	22.00 SQ.
IC149-112K14672-* (SnPb only)▲	112	0.65	32.00	32.00	11.15	12.75	22.00 SQ.
IC149-120-*43-#5+	120	0.40	28.00	28.00	13.20	14.80	15.30 SQ.
IC149-132-*15-#5▲	132	0.635	36.05	36.05	9.16	11.36	26.55 SQ.
IC149-144-*45-#5+	144	0.50	34.20	34.20	12.30	12.60	21.14 SQ.
IC149-144K11453-*#■	144	0.65	40.00	40.00	9.90	11.50	30.60 SQ.
IC149-152KS11226-*#■	152	0.65	40.00	40.00	9.90	11.50	30.60 SQ.
IC149-160-*23-#5■	160	0.65	40.00	40.00	9.90	11.50	30.60 SQ.
IC149-160K14577-*#■	160	0.50	40.00	40.00	9.90	11.50	30.60 SQ.
IC149-160-*50-#5+	160	0.65	39.00	39.00	12.30	12.60	25.30 SQ.
IC149-176-*66-#5+	176	0.50	39.00	39.00	12.30	12.60	25.30 SQ.
IC149-208-*61-#5+	208	0.50	43.60	43.60	12.30	12.60	29.90 SQ.
IC149-240-*67-#5+	240	0.50	47.60	47.60	12.30	12.60	33.90 SQ.
IC149-256K12624-*#■	256	0.50	51.00	51.00	12.00	14.20	37.90 SQ.
IC149-272-*29-#5■	272	0.50	51.00	51.00	12.00	14.20	37.90 SQ.

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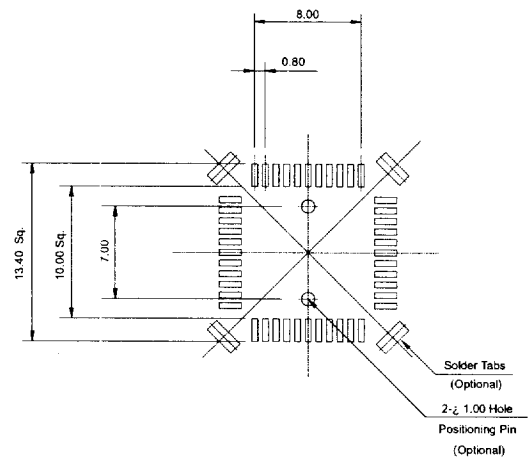
IC149 Series

PCB Layouts (Reference Only)

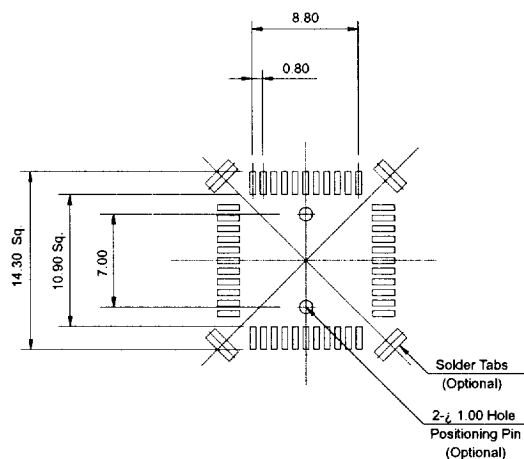
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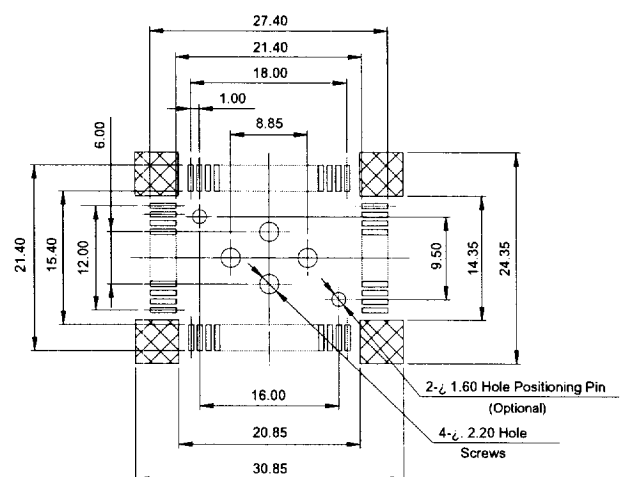
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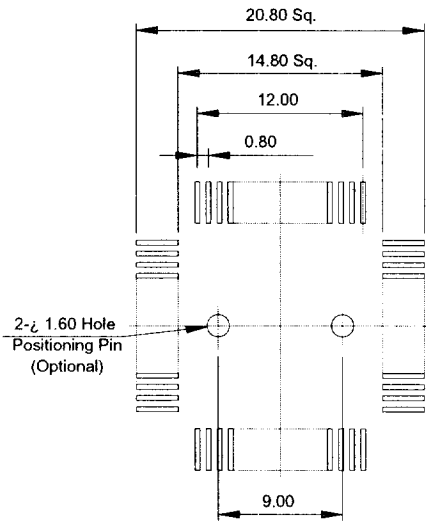


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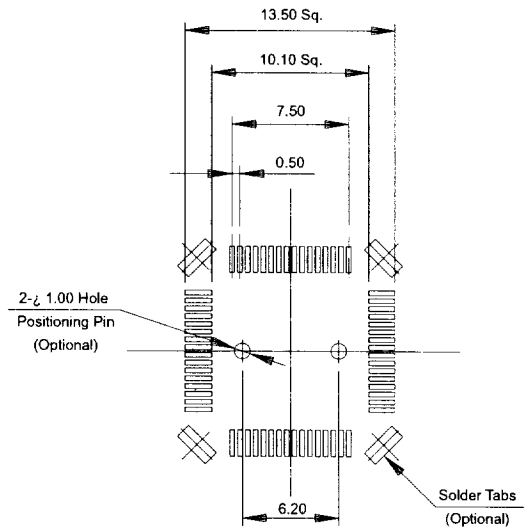
IC149 Series

PCB Layouts (Reference Only)

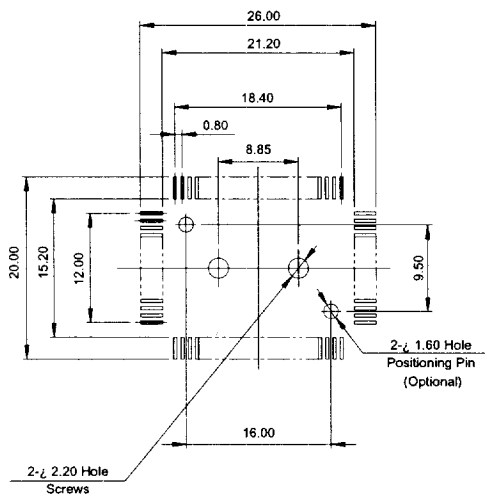
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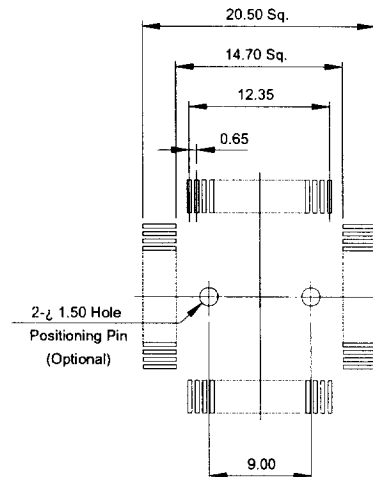
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IC149-080-*12-#5▲



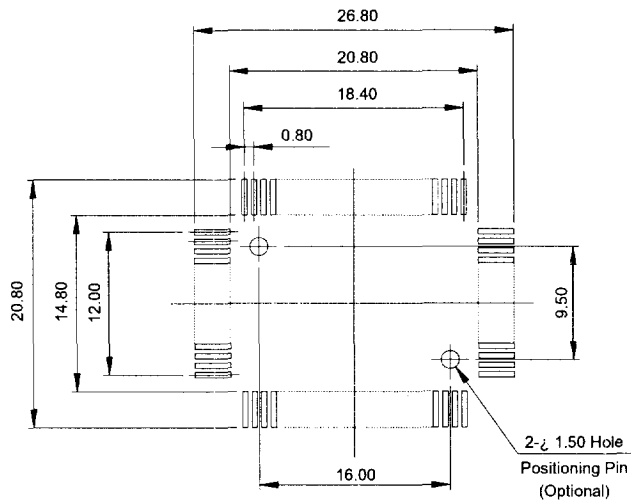
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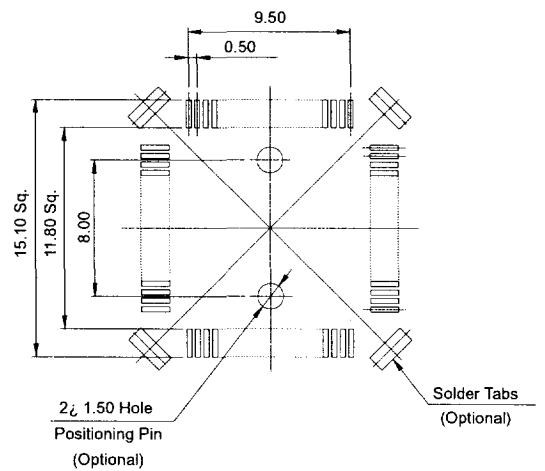
IC149 Series

PCB Layouts (Reference Only)

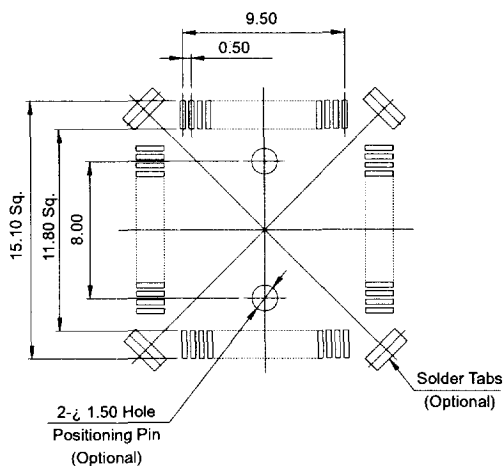
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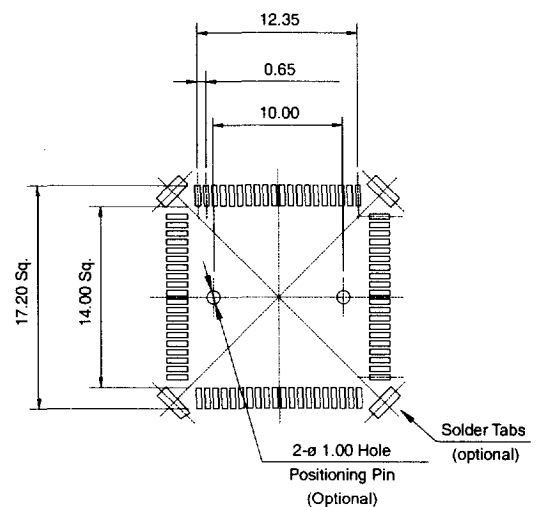
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IC149-080-*31-#5+



IC149-080-*51-#5+

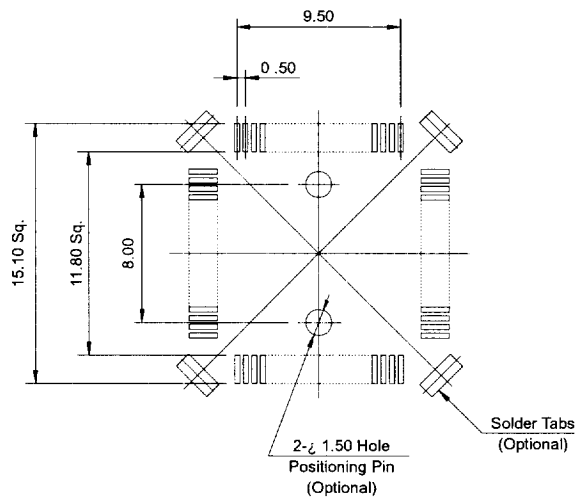


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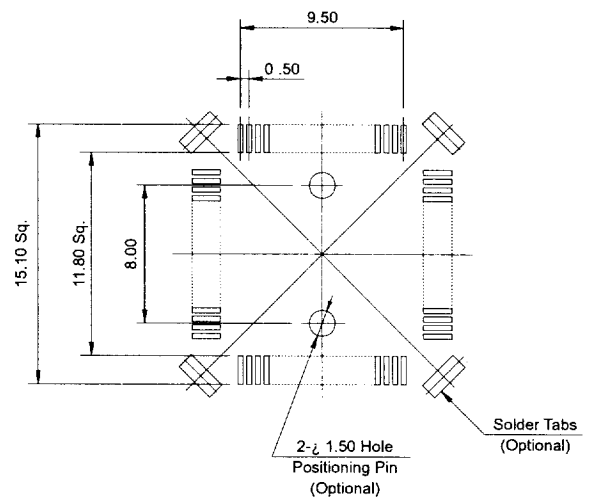
IC149 Series

P&B Layouts (Reference Only)

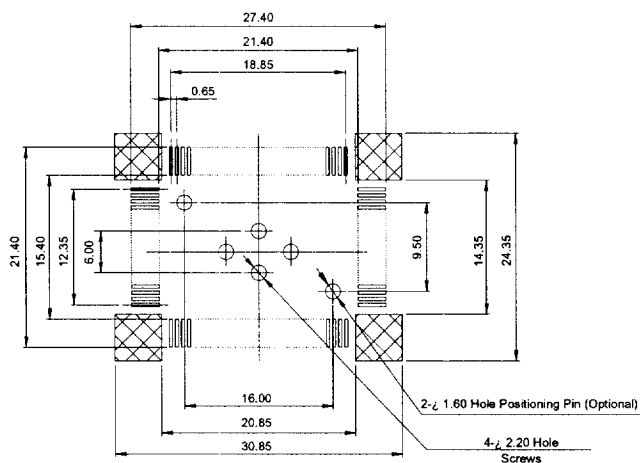
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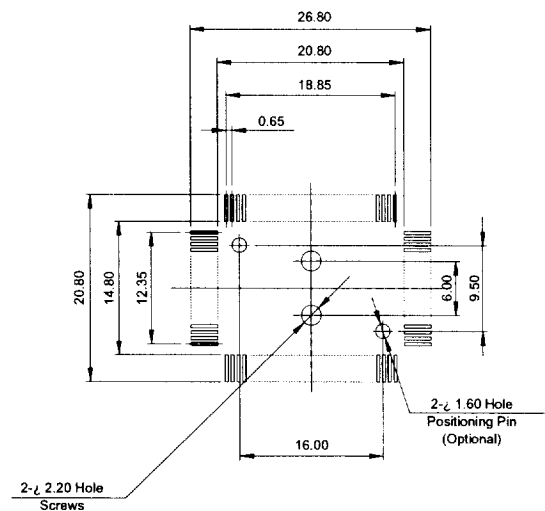
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IC149-100-*05-#5▲



IC149-100-*14-#5▲

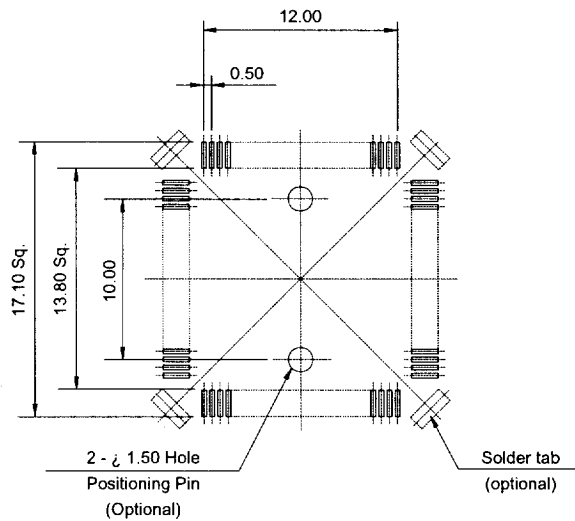


QFP Prototyping SMT

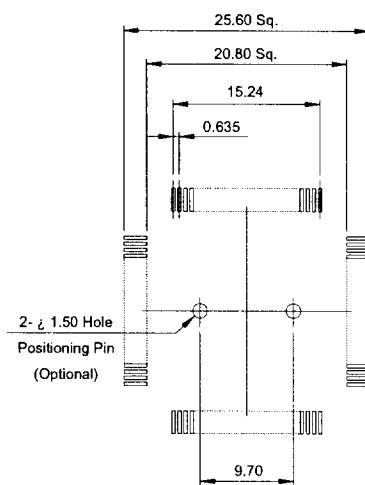
IC149 Series

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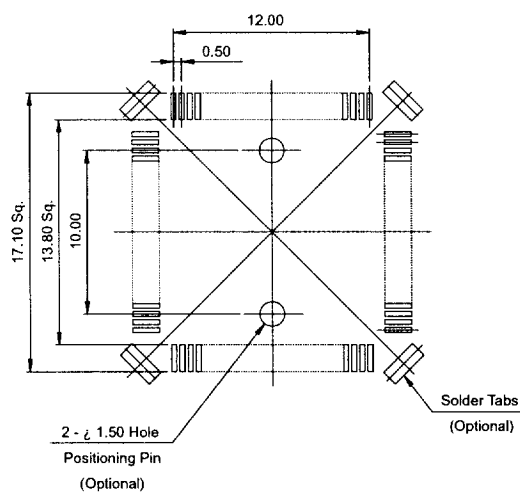
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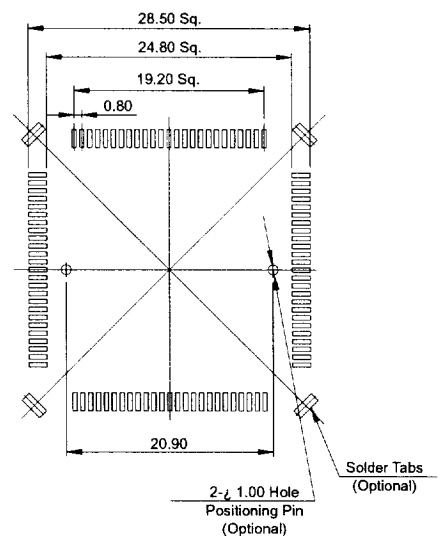
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IC149-100-*54-#5+



IC149-100-*60-#5+

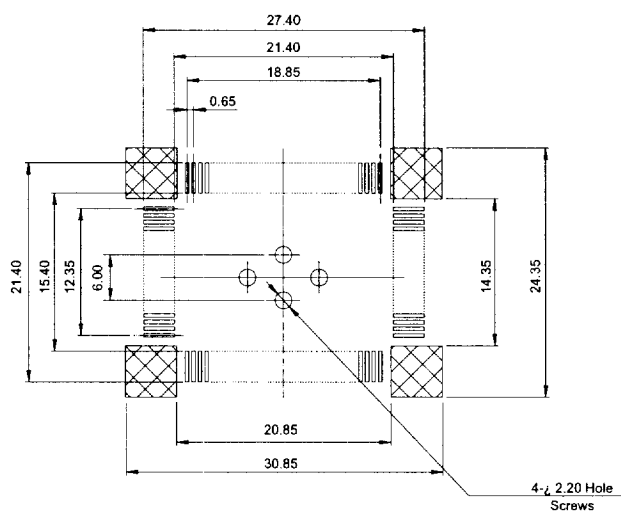


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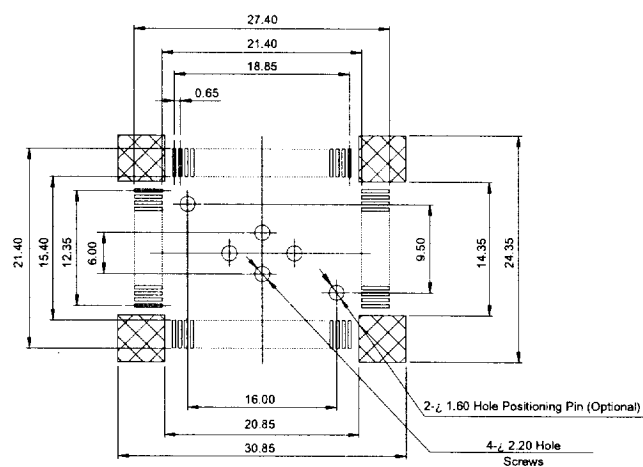
IC149 Series

PCB Layouts (Reference Only)

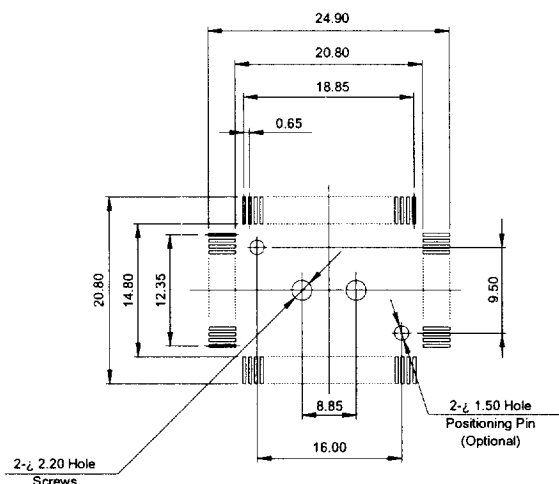
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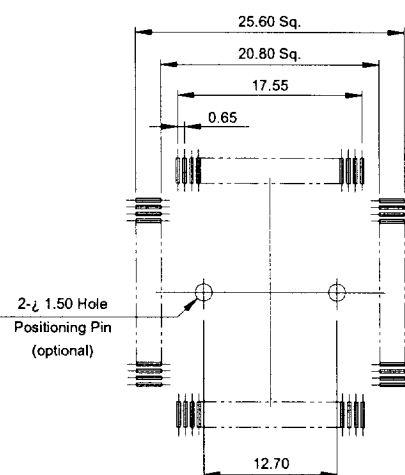
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IC149-KS-10823-*▲



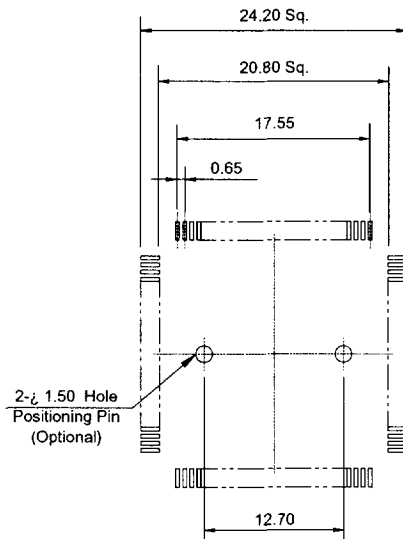
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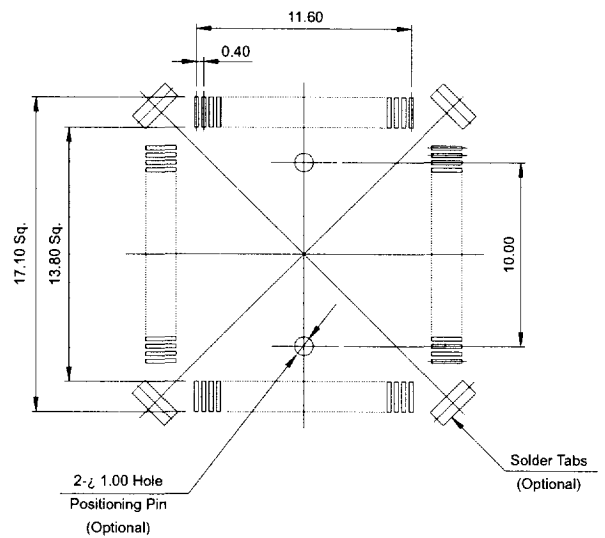
IC149 Series

PCB Layouts (Reference Only)

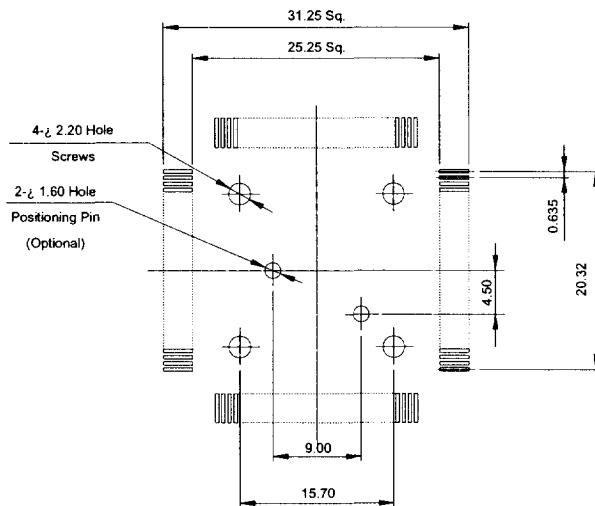
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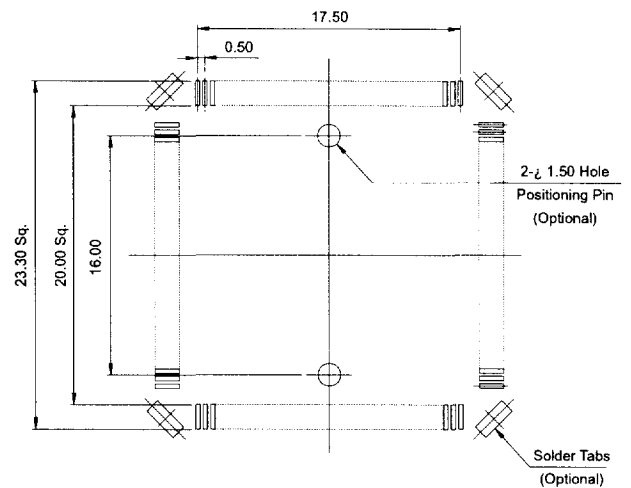
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IC149-132-*15-#5▲



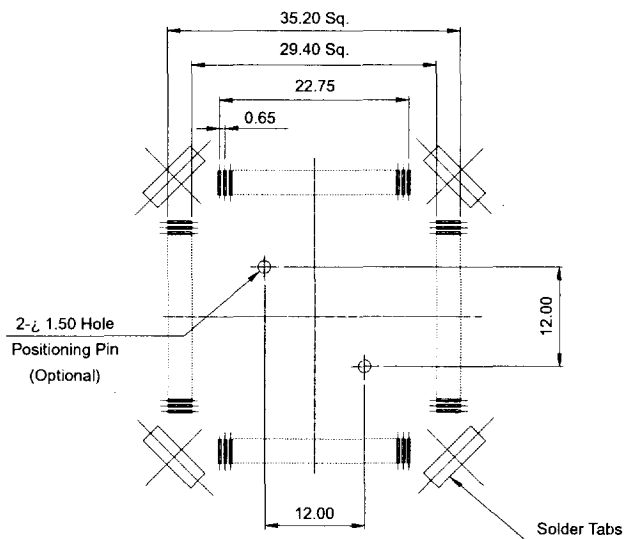
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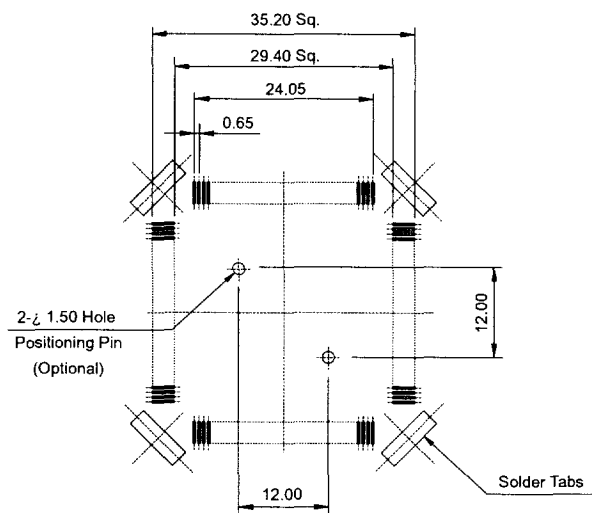
IC149 Series

PCB Layouts (Reference Only)

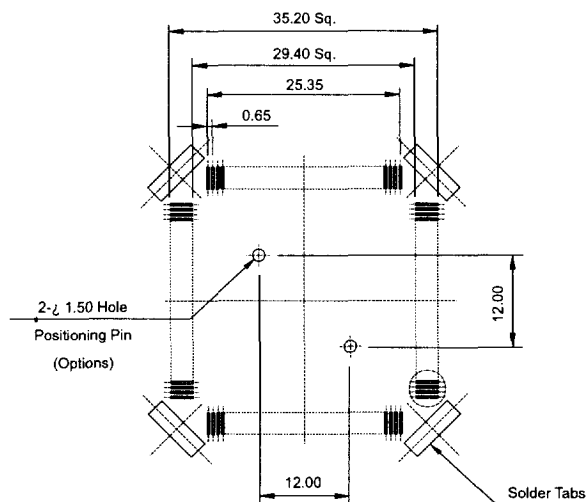
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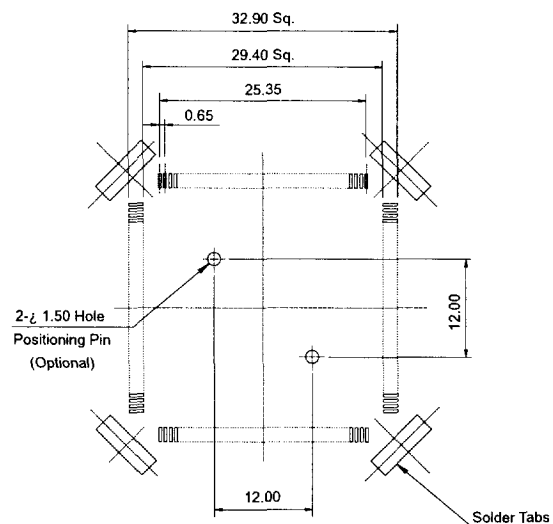
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IC149-160-*23-#5■



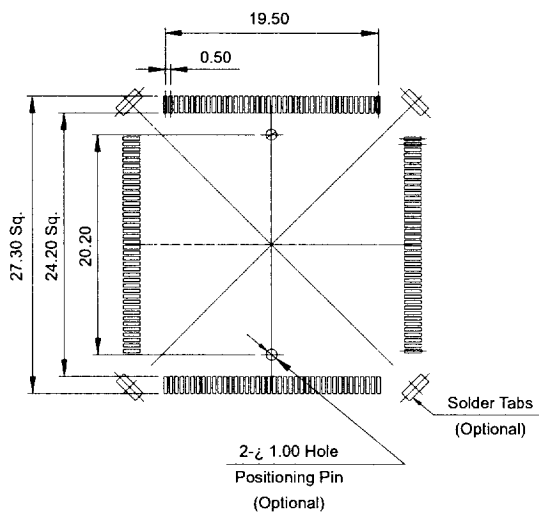
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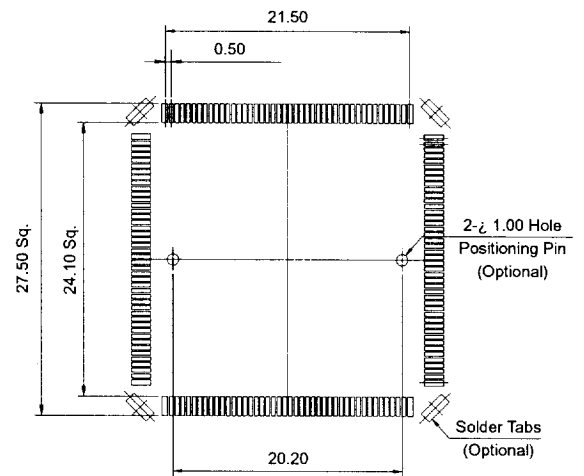
IC149 Series

PCB Layouts (Reference Only)

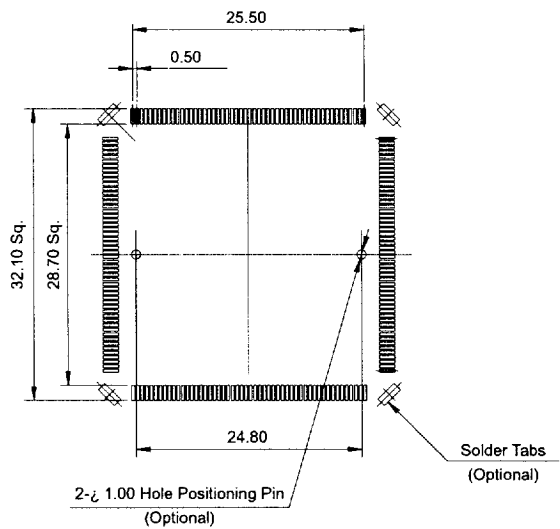
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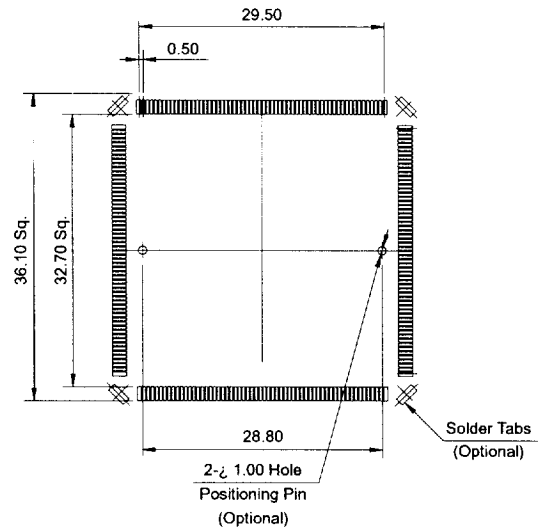
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IC149-208-*61-#5+



IC149-240-*67-#5+

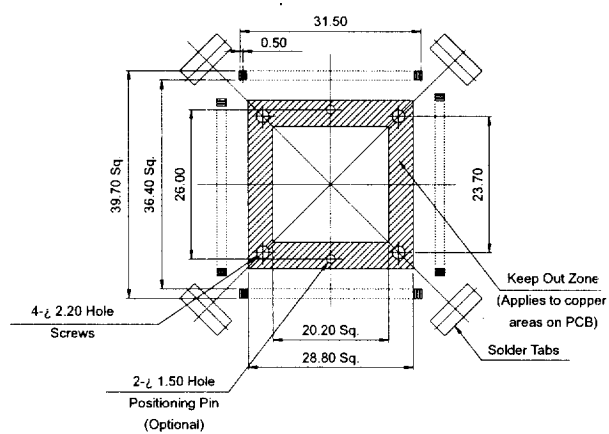


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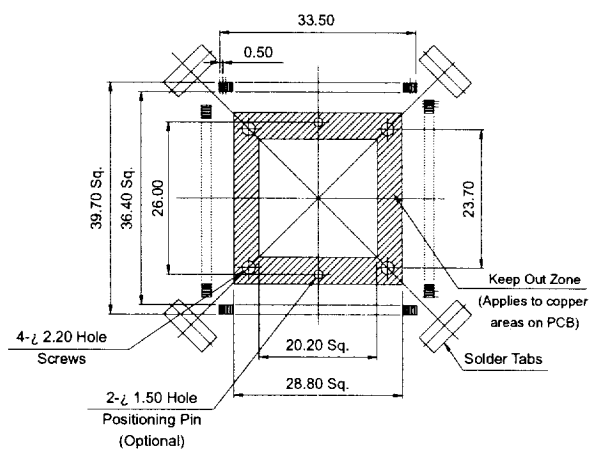
IC149 Series

PCB Layouts (Reference Only)

IC149-256K12624-#* ■

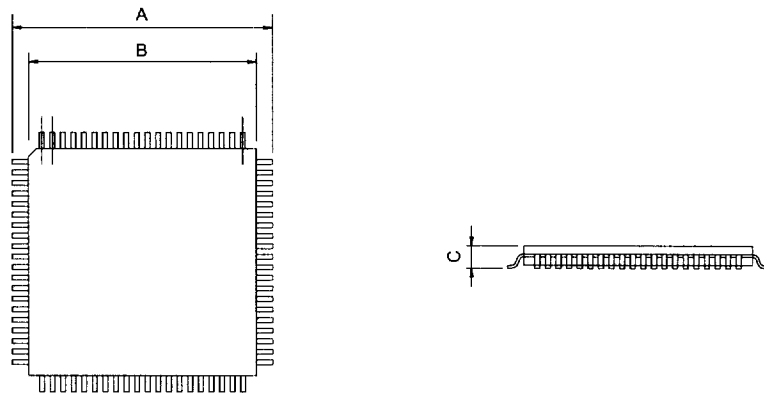


IC149-272-*29-#5 ■



IC149 Series

IC Outline Dimensions (Reference Only)



IC Dimensions (Reference Only)

Number of Contacts	Pitch (mm)	A IC Tip-to-Tip (mm)	B IC Body Size (mm)	C IC Package Thickness (mm)	Part Number
44	0.80	17.20 x 17.20	14.00 x 14.00	3.05	IC149-044-*49-#5+
44	0.80	12.65 x 12.65	10.00 x 10.00	2.51 (Ceramic)	IC149-044-*52-#5+
44	0.80	12.20 x 12.20	10.00 x 10.00	1.95 (Plastic)	IC149-044-*52-#5+
48	0.80	13.10 x 13.10	10.00 x 10.00	2.35	IC149-048-*56-#5+
64	1.00	17.60-20.10 x 23.60-26.10	14.00 x 20.00	3.05	IC149-064-*01-#5▲
64	0.80	17.20 x 17.20	14.00 x 14.00	4.85 (Ceramic)	IC149-064-*08-#5▲
64	0.80	17.20 x 17.20	14.00 x 14.00	2.25 (Plastic)	IC149-064-*08-#5▲
64	0.50	12.00 x 12.00	10.00 x 10.00	1.60	IC149-064-*69-#5+
80	0.80	18.80 x 24.80	14.00 x 20.00	3.05	IC149-080-*12-#5▲
80	0.65	17.20 x 17.20	14.00 x 14.00	3.00	IC149-080-*17-#5▲
80	0.80	17.20 x 23.20	13.20 x 21.40	2.9 (Ceramic)	IC149-080-*21-#5▲
80	0.80	17.20 x 23.20	14.00 x 20.00	2.9 (Plastic)	IC149-080-*21-#5▲
80	0.50	14.00 x 14.00	12.00 x 12.00	2.70 (Ceramic)	IC149-080-*30-#5+
80	0.50	14.00 x 14.00	12.00 x 12.00	2.80 (Plastic)	IC149-080-*30-#5+
80	0.50	13.60 x 13.60	12.00 x 12.00	1.20	IC149-080-*31-#5+
80	0.65	16.00 x 16.00	14.00 x 14.00	1.40	IC149-080-*51-#5+
80	0.50	14.00 x 14.00	12.00 x 12.00	2.80	IC149-080-*58-#5+
80	0.50	13.60 x 13.60	12.00 x 12.00	1.20	IC149-080-*59-#5+
100	0.65	17.60-20.10 x 23.60-26.10	14.00 x 20.00	2.90	IC149-100-*05-#5▲
100	0.65	17.20 x 23.20	14.00 x 20.00	3.50	IC149-100-*14-#5▲
100	0.50	16.00 x 16.00	14.00 x 14.00	2.90	IC149-100-*25-#5+
100	0.635	22.94 x 22.94	19.13 x 19.13	2.79	IC149-100-*28-#5 (BQFP)▲
100	0.50	16.00 x 16.00	14.00 x 14.00	2.90	IC149-100-*54-#5+
100	0.80	27.80 x 27.80	22.00 x 22.00	4.26	IC149-100-*60-#5+
100	0.65	17.60-20.10 x 23.60-26.10	14.00 x 20.00	2.90	IC149-005K13230 (SnPb only)▲
100	0.65	17.60-20.10 x 23.60-26.10	14.00 x 20.00	2.90	IC149-*05K13231-#▲
100	0.65	17.20 x 23.20	14.00 x 20.00	3.50	IC149-KS-10823-* (SnPb only)▲
112	0.65	23.20 x 23.20	20.00 x 20.00	3.05	IC149-112-*42-#5▲
112	0.65	23.20 x 23.20	20.00 x 20.00	3.05	IC149-112K14672-* (SnPb only)▲
120	0.40	16.00 x 16.00	14.00 x 14.00	2.90	IC149-120-*43-#5+
132	0.635	27.43 x 27.43	22.36 x 22.36	3.36	IC149-132-*15-#5▲
144	0.50	22.00 x 22.00	20.00 x 20.00	1.70	IC149-144-*45-#5+
144	0.65	32.00 x 32.00	28.00 x 28.00	4.00	IC149-144K11453-*#■
152	0.65	32.00 x 32.00	28.00 x 28.00	4.00	IC149-152KS11226-*#■
160	0.65	32.00 x 32.00	28.00 x 28.00	4.00	IC149-160-*23-#5■
160	0.65	32.00 x 32.00	28.00 x 28.00	4.00	IC149-160K14577-*#■
160	0.50	26.00 x 26.00	24.00 x 24.00	2.00	IC149-160-*50-#5+
176	0.50	26.00 x 26.00	24.00 x 24.00	1.80	IC149-176-*66-#5+
208	0.50	30.60 x 30.60	28.00 x 28.00	4.07	IC149-208-*61-#5+
240	0.50	34.60 x 34.60	32.00 x 32.00	4.10	IC149-240-*67-#5+
256	0.50	39.64 x 39.64	36.00 x 36.00	3.43	IC149-256K12624-*#■
272	0.50	39.64 x 39.64	36.00 x 36.00	3.43	IC149-272-*29-#5■