

0.65MM PITCH

SERIES IC51 (CLAMSHELL - TH) QFP, PQFP, TQFP AND MQUAD*

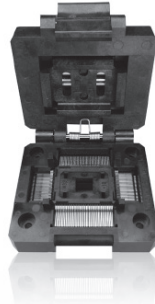
*QFP variations e.g. BQFP...

SPECIFICATIONS

Insulation Resistance:	1,000MΩ min. at 100V DC
Dielectric Withstanding Voltage:	for 1 minute (socket depended)
Contact Resistance:	30mΩ max. at 10mA/20mV max.
Operating Temperature Range:	-40°C to +150°C (for type PEI/PSF) -55°C to +170°C (for type PES) -55°C to +170°C (for type PEI)
Mating Cycles:	10,000 insertions min.

MATERIALS AND FINISH

Housing:	Polysulphone (PSF), glass-filled Polyethersulphone (PES), glass-filled Polyetherimide (PEI), glass-filled
Contacts:	Beryllium Copper (BeCu)
Plating:	Gold over Nickel



PART NUMBER

IC51 - 048 4 - 652

Series No.	↑
No. of Contact Pins	↑
Number of Sides with Contacts	↑
Design Number	↑

As specifications for this product differ by pitch and material-mix, please contact Yamaichi for detailed information.

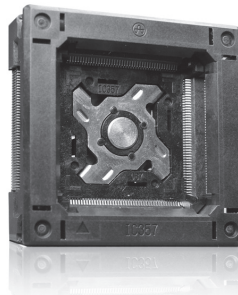
SERIES IC357 (OPEN TOP - TH) QUAD FLAT PACKAGE (QFP) WITH 2-POINT CONTACT TYPE

SPECIFICATIONS

Insulation Resistance:	1,000MΩ min. at 500V DC, pitch 0.4 to 0.8
Dielectric Withstanding Voltage:	100V AC for 1 minute, pitch 0.5 to 0.8
Contact Resistance:	30mΩ max. at 10mA/20mV max.
Operating Temperature Range:	-40°C to +150°C
Mating Cycles:	10,000 insertions min.
Contact Force:	20g to 45g per pin

MATERIALS AND FINISH

Housing:	Polyetherimide (PEI), glass-filled Polyethersulphone (PES) glass-filled
Contacts:	Beryllium Copper (BeCu)
Plating:	Gold over Nickel



PART NUMBER

IC357 - 100 4 - 002 - *

Series No.	↑
No. of Contact Pins	↑
Number of Sides with Contacts	↑
Design Number	↑
Positioning Pin: N = Without Positioning Pin P = With Positioning Pin	↑

INFO: Various types with movable GND pin options available

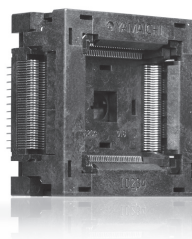
SERIES IC234 (OPEN TOP - TH) QUAD FLAT PACKAGE (QFP) WITH SHOULDER CONTACT TYPE

SPECIFICATIONS

Insulation Resistance:	1,000MΩ min. at 100V DC pitch 0.4, 0.5 1,000MΩ min. at 500V DC pitch 0.65, 0.8
Dielectric Withstanding Voltage:	100V AC for 1 minute pitch 0.4, 0.5 500V AC for 1 minute pitch 0.65 700V AC for 1 minute pitch 0.8
Contact Resistance:	30mΩ max. at 10mA/20mV max.
Operating Temperature Range:	-40°C to +150°C
Contact Force:	20g to 80g per pin
Mating Cycles:	10,000 insertions min.

MATERIALS AND FINISH

Housing:	Polyetherimide (PEI), glass-filled Polyethersulphone (PES) glass-filled
Contacts:	Beryllium Copper (BeCu)
Plating:	Gold over Nickel



PART NUMBER

IC234 - 120 4 - 058 - *

Series No.	↑
No. of Contact Pins	↑
Number of Sides with Contacts	↑
Design Number	↑
Positioning Pin: N = Without Positioning Pin P = With Positioning Pin K = Protection Key**	↑

** Protection Key: Prevents IC from releasing during transportation

O.65MM PITCH

SERIES IC201 (OPEN TOP - TH) - QUAD FLAT PACKAGES (QFP)

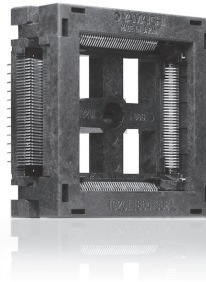
SPECIFICATIONS

Insulation Resistance:	1,000MΩ min. at 500V DC or 1,000MΩ min. at 100V DC
Dielectric Withstanding Voltage:	100/500/700V AC for 1 minute
Contact Resistance:	30mΩ max. at 10mA/20mV max.
Operating Temperature Range:	-40°C to +170°C and -40°C to +150°C
Contact Force:	20g to 80g per pin
Mating Cycles:	10,000 insertions min.

The information above is typical for this Series
for individual specifications please contact Yamaichi

Materials and Finish

Housing:	Polyetherimide (PEI), glass-filled Polyphenylenesulfide (PPS), glass-filled
Contacts:	Beryllium Copper (BeCu)
Plating:	Gold over Nickel



PART NUMBER

IC201 - 080 4 - 012 * - *

Series No.

No. of Contact Pins

Number of Sides with Contacts

Design Number

Positioning Pin:

N = Without Positioning Pin

P = With Positioning Pin

Protection Key**

K = With Protection Key

Unmarked = Without Protection Key

** Protection Key: Prevents IC from releasing during transportation

SERIES IC500 (OPEN TOP - TH)

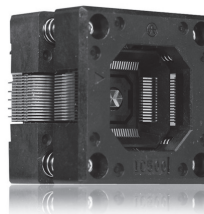
QUAD FLAT PACKAGE (QFP) WITH 2-POINT CONTACT TYPE

SPECIFICATIONS

Insulation Resistance:	1,000MΩ min. at 100V DC pitch 0.5 1,000MΩ min. at 500V DC pitch 0.65, 0.8
Dielectric Withstanding Voltage:	100V AC for 1 minute pitch 0.5 500V AC for 1 minute pitch 0.65 700V AC for 1 minute pitch 0.8
Contact Resistance:	30mΩ max. at 10mA/20mV max.
Operating Temperature Range:	-40°C to +150°C
Contact Force:	20g to 80g per pin
Mating Cycles:	10,000 insertions min.

MATERIALS AND FINISH

Housing:	Polyetherimide (PEI), glass-filled Polyethersulphone (PES) glass-filled
Contacts:	Beryllium Copper (BeCu)
Plating:	Gold over Nickel



PART NUMBER

IC500 - 064 4 - 008 - *

Series No.

No. of Contact Pins

Number of Sides with Contacts

Design Number

Positioning Pin:

N = Without Positioning Pin

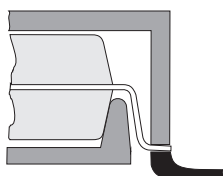
P = With Positioning Pin

K = Protection Key**

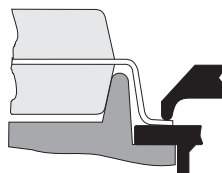
** Protection Key: Prevents IC from releasing during transportation

INFO: Various types with movable GND pin options available

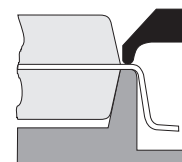
CONTACT STYLES



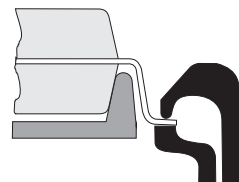
SERIES IC51



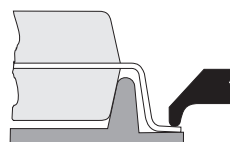
SERIES IC357 / IC402



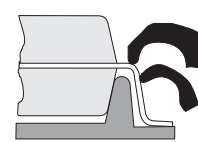
SERIES IC234



SERIES IC (KELVIN)

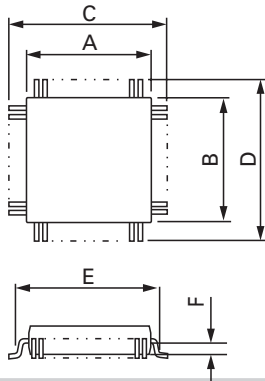
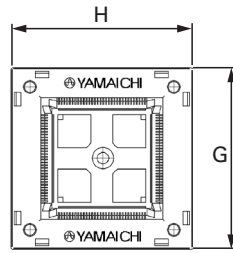
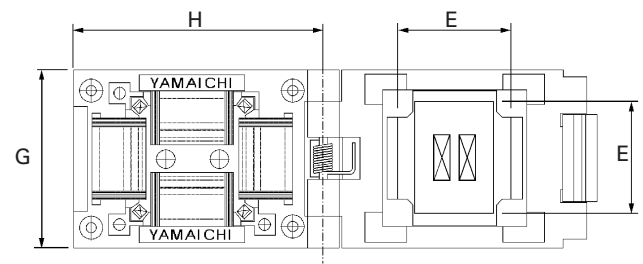


SERIES IC2**



SERIES IC500

0.65MM PITCH

Outline IC Package Dimension

Outline Open TopSocket Dimensions

Outline ClamshellSocket Dimensions


C L = Clamshell, OT = Open Top

Part Number	Pin Count	IC Body A x B	IC Tip-to-Tip C x D	Parallel Clamp E	1/2 IC Height F	Socket Dim. G x H	Type
IC51-0484-652	48	6.0 x 9.0	7.4 x 8.8	7.00	-	34.0 x 34.5	CL
QFP11T052-004 A102221*	52	10.0 x 10.0	13.2 x 13.2	13.30	-	34.0 x 37.0	CL
IC234-0564-084 *	56	10.0 x 10.0	12.8 x 12.8	-	1.50	29.3 x 29.3	OT
IC51-0564-680	56	10.0 x 10.0	13.2 x 13.2	11.80	-	34.0 x 35.5	CL
IC357-0644-077	64	12.0 x 12.0	14.0 x 14.0	-	0.6375	29.0 x 29.0	OT
IC51-0644-1586	64	12.0 x 12.0	15.3 x 15.3	13.90	-	36.0 x 39.0	CL
IC51-0644-1602	64	12.0 x 12.0	14.0 x 14.0	13.10	-	20.0 x 42.0	CL
IC51-0684-734	68	10.0 x 14.0	13.2 x 17.2	11.80 x 15.80	-	37.0 x 41.0	CL
IC201-0804-005 *-*	80	14.0 x 20.0	17.9 x 23.9	-	1.22	32.9 x 38.9	OT
IC201-0804-012 *-*	80	14.0 x 14.0	17.2 x 17.2	-	0.92	29.2 x 32.2	OT
IC234-0804-019 *	80	14.0 x 14.0	16.8 x 16.8	-	1.35	32.2 x 32.2	OT
IC357-0804-003	80	14.0 x 14.0	17.2 x 17.2	-	0.50	31.9 x 31.9	OT
IC500-0804-005	80	14.0 x 14.0	16.0 x 16.0	-	1.07	32.0 x 32.2	OT
IC51-0804-711	80	14.0 x 14.0	17.2 x 17.2	15.80	-	37.0 x 41.0	CL
IC51-0804-795	80	14.0 x 14.0	16.0 x 16.0	15.30	-	37.0 x 41.0	CL
IC51-0804-956-2	80	14.0 x 14.0	17.2 x 17.2	16.40	-	34.0 x 42.5	CL
IC51-795 KS-13930	80	14.0 x 14.0	17.2 x 17.2	15.90	-	37.0 x 41.0	CL
QFP11T080-008	80	14.0 x 14.0	16.0 x 16.0	15.30	-	39.0 x 39.5	CL
IC201-1004-016 *-*	100	14.0 x 20.0	17.9 x 23.9	-	1.28	32.9 x 38.9	OT
IC201-1004-028 *	100	14.0 x 20.0	17.2 x 23.2	-	1.20	32.2 x 38.2	OT
IC201-1004-050 *	100	14.0 x 20.0	16.0 x 22.0	-	0.75	31.0 x 37.0	OT
IC234-1004-006 *	100	14.0 x 20.0	16.0 x 22.0	-	0.875	31.0 x 37.0	OT
IC234-1004-008 *	100	14.0 x 20.0	18.15 x 24.15	-	1.33	32.2 x 38.2	OT
IC234-1004-009 *	100	14.0 x 20.0	18.15 x 24.15	-	1.33	32.2 x 38.2	OT
IC234-1004-013 *	100	14.0 x 20.0	17.2 x 23.2	-	1.35	32.2 x 38.2	OT
IC234-1004-014 *	100	14.0 x 20.0	16.0 x 22.0	-	0.67	32.2 x 38.2	OT
IC234-1004-015 *	100	14.0 x 20.0	16.75 x 22.75	-	0.67	32.2 x 38.2	OT
IC234-1004-028 *	100	14.0 x 20.0	18.4 x 24.4	-	1.33	32.2 x 38.2	OT
IC234-1004-033 *	100	14.0 x 20.0	17.9 x 23.9	-	1.33	32.2 x 38.2	OT
IC51-1004-814-1	100	14.0 x 20.0	17.9 x 23.9	17.0 x 23.0	-	34.0 x 42.5	CL
IC51-1004-814-2	100	14.0 x 20.0	17.2 x 23.2	16.4 x 22.4	-	34.0 x 42.5	CL
IC51-1004-814-6	100	14.0 x 20.0	17.2 x 23.2	15.8 x 21.8	-	34.0 x 42.5	CL
IC51-1004-814-7	100	14.0 x 20.0	17.2 x 23.2	16.4 x 22.4	-	34.0 x 42.5	CL
IC51-814 KS-12033	100	14.0 x 20.0	17.2 x 23.2	16.4 x 22.4	-	34.0 x 42.5	CL
IC234-1124-093 *	112	24.0 x 24.0	23.2 x 23.2	-	1.30	38.2 x 38.2	OT
IC500-1124-001	112	20.0 x 20.0	22.0 x 22.0	-	0.68	38.2 x 38.2	OT
IC51-1124-1036-2	112	20.0 x 20.0	23.2 x 23.2	22.30	-	34.0 x 42.5	CL
IC51-1124-1036-YED	112	20.0 x 20.0	22.0 x 22.0	21.00	-	34.0 x 42.5	CL
IC201-006 AC-04462	144	28.0 x 28.0	31.2 x 31.2	-	1.65	46.2 x 46.2	OT
IC51-1444-1014	144	28.0 x 28.0	31.2 x 31.2	30.40	-	44.0 x 57.0	CL
IC51-1444-1014-3	144	28.0 x 28.0	31.2 x 31.2	30.40	-	44.0 x 57.0	CL
IC201-1604-006 *-*	160	28.0 x 28.0	31.2 x 31.2	-	1.65	46.2 x 46.2	OT
IC234-1604-018 *	160	27.9 x 27.9	32.0 x 32.0	-	1.48	47.6 x 47.6	OT
IC234-1604-032 *	160	28.0 x 28.0	30.6 x 30.6	-	1.66	47.6 x 47.6	OT
IC51-1604-845-1	160	28.0 x 28.0	31.6 x 31.6	30.60	-	44.0 x 57.0	CL
IC51-1604-845-2	160	28.0 x 28.0	31.6 x 31.6	30.60	-	44.0 x 57.0	CL
IC51-1604-845-4	160	28.0 x 28.0	31.2 x 31.2	30.20	-	44.0 x 57.0	CL
IC51-1604-845-8	160	28.0 x 28.0	31.2 x 31.2	30.20	-	44.0 x 57.0	CL
IC51-1604-926	160	29.0 x 29.0	30.2 x 31.4	30.40	-	44.0 x 57.0	CL

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