

0.50MM 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.

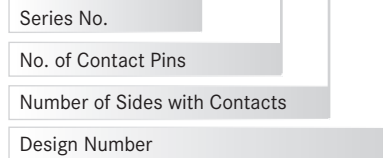
MATERIALS AND FINISH

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



PART NUMBER

IC51 - 064 4 - 027



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

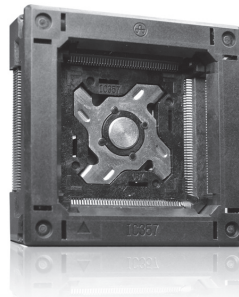
SERIES IC357 (OPEN TOP - TH) QUAD FLAT PACKAGE (QFP) WITH 2-POINT CONTACT TYPE

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

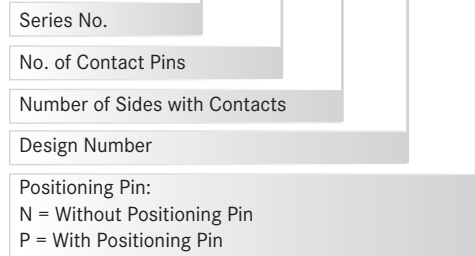
MATERIALS AND FINISH

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



PART NUMBER

IC357 - 100 4 - 002 - *



INFO: Various types with movable GND pin options available

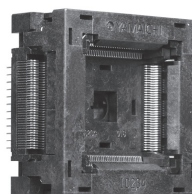
SERIES IC234 (OPEN TOP - TH) QUAD FLAT PACKAGE (QFP) WITH SHOULDER CONTACT TYPE

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.

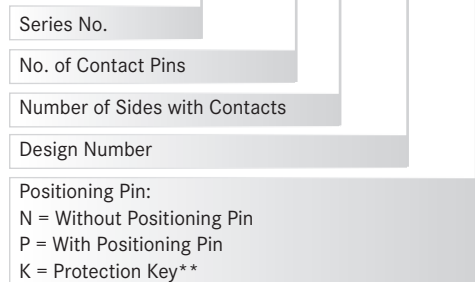
MATERIALS AND FINISH

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



PART NUMBER

IC234 - 120 4 - 058 - *



** Protection Key: Prevents IC from releasing during transportation

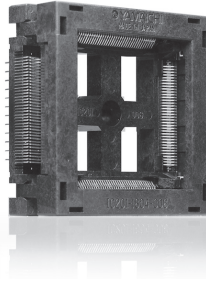
0.50MM PITCH

SERIES IC200 / IC201 / IC217 / IC248 (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

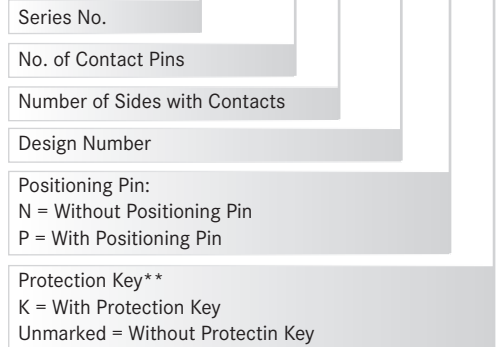


Materials and Finish

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

PART NUMBER

IC201 - 080 4 - 014 * - *

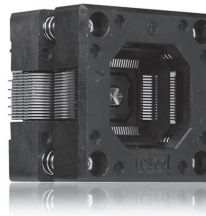


** Protection Key: Prevents IC from releasing during transportation

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.

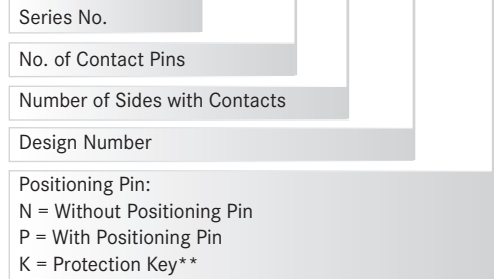


MATERIALS AND FINISH

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

PART NUMBER

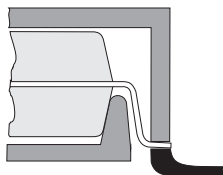
IC500 - 064 4 - 008 - *



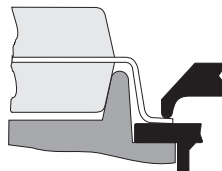
** Protection Key: Prevents IC from releasing during transportation

INFO: Various types with movable GND pin options available

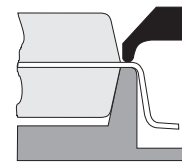
CONTACT STYLES



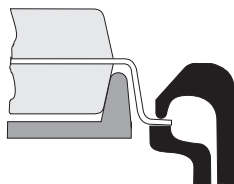
SERIES IC51



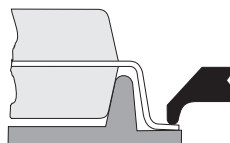
SERIES IC357 / IC402



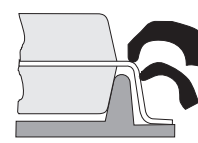
SERIES IC234



SERIES IC (KELVIN)



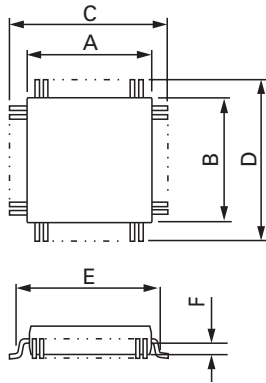
SERIES IC2**



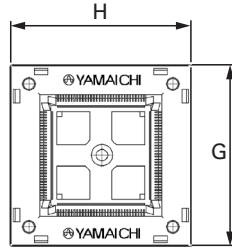
SERIES IC500

0.50MM PITCH

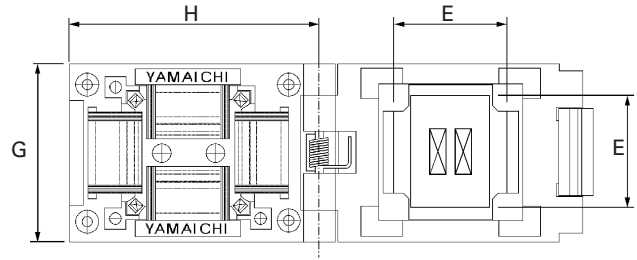
Outline IC Package Dimensions



Outline Open Top Socket Dimensions



Outline Clamshell Socket 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
IC51-0324-805	32	5.0 x 5.0	7.0 x 7.0	6.20	-	28.0 x 31.0	CL
IC234-0484-034 *	48	7.0 x 7.0	9.0 x 9.0	-	0.47	26.6 x 26.6	OT
IC234-0484-039 *	48	7.0 x 7.0	9.0 x 9.0	-	0.74	26.6 x 26.6	OT
IC357-0484-078 *	48	7.0 x 7.0	9.0 x 9.0	-	0.45	22.0 x 22.0	OT
IC51-0484-806	48	7.0 x 7.0	9.0 x 9.0	8.20	-	29.0 x 32.0	CL
IC51-0484-806-2	48	7.0 x 7.0	9.0 x 9.0	8.30	-	29.0 x 32.0	CL
IC201-0644-003 *	64	10.0 x 10.0	12.0 x 12.0	-	0.70	30.0 x 36.0	OT
IC201-0644-040 *	64	10.0 x 10.0	12.0 x 12.0	-	0.67	28.7 x 28.7	OT
IC234-0644-027 *	64	10.0 x 10.0	12.0 x 12.0	-	0.66	29.6 x 29.6	OT
IC234-0644-122 *	64	10.0 x 10.0	12.0 x 12.0	-	0.66	29.6 x 29.6	OT
IC357-0644-068	64	10.0 x 10.0	12.0 x 12.0	-	0.6375	26.2 x 26.2	OT
IC500-0644-008	64	10.0 x 10.0	12.0 x 12.0	-	0.67	29.6 x 29.6	OT
IC51-0644-807	64	10.0 x 10.0	12.0 x 12.0	11.30	-	32.0 x 35.0	CL
IC51-807 AC-15764	64	10.0 x 10.0	13.2 x 13.2	12.00	-	32.0 x 35.0	CL
IC201-0804-014 *-*	80	12.0 x 12.0	14.0 x 14.0	-	0.62	29.0 x 29.0	OT
IC234-0804-011 *	80	12.0 x 12.0	14.0 x 14.0	-	0.45	29.0 x 29.0	OT
IC234-0804-026 *	80	12.0 x 12.0	14.0 x 14.0	-	0.67	31.6 x 31.6	OT
IC357-0804-074	80	12.0 x 12.0	14.0 x 14.0	-	0.6375	29.0 x 29.0	OT
IC357-0804-096	80	12.0 x 12.0	14.0 x 14.0	-	0.6375	29.0 x 29.0	OT
IC51-0804-808	80	12.0 x 12.0	14.0 x 14.0	13.30	-	34.0 x 37.0	CL
IC51-0804-808-2	80	12.0 x 12.0	14.0 x 14.0	13.20	-	34.0 x 37.0	CL
IC51-0804-808-4	80	12.0 x 12.0	14.0 x 14.0	13.40	-	34.0 x 37.0	CL
IC201-1004-008 *-*	100	14.0 x 14.0	16.0 x 16.0	-	0.60	32.2 x 31.0	OT
IC201-1004-043 *	100	14.0 x 14.0	16.0 x 16.0	-	0.45	31.0 x 31.0	OT
IC234-1004-023 *	100	14.0 x 14.0	16.0 x 16.0	-	0.67	33.6 x 33.6	OT
IC357-1004-002	100	14.0 x 14.0	16.0 x 16.0	-	0.50	31.9 x 31.9	OT
IC357-1004-014	100	14.0 x 14.0	16.0 x 16.0	-	0.55	31.9 x 31.9	OT
IC357-1004-053	100	14.0 x 14.0	16.0 x 16.0	-	0.55	31.9 x 31.9	OT
IC402-1004-002*	100	14.0 x 20.0	16.0 x 22.0	-	0.70	29.8 x 23.8	OT
IC500-1004-004	100	14.0 x 14.0	16.0 x 16.0	-	0.68	33.6 x 33.6	OT
IC51-1004-809	100	14.0 x 14.0	16.0 x 16.0	15.30	-	39.0 x 39.0	CL
IC51-1004-809-14	100	14.0 x 14.0	16.0 x 16.0	15.30	-	39.0 x 39.0	CL
IC51-1004-809-2	100	14.0 x 14.0	16.0 x 16.0	15.30	-	39.0 x 39.0	CL
IC51-1004-809-6	100	14.0 x 14.0	16.0 x 16.0	15.30	-	39.0 x 39.0	CL
IC51-809 KS-13929	100	14.0 x 14.0	17.2 x 17.2	15.90	-	39.0 x 39.0	CL
IC234-1204-058 *	120	16.0 x 16.0	18.0 x 18.0	-	0.67	35.6 x 35.6	OT

0.50MM PITCH

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
IC51-1204-1652	120	15.93 x 15.93	17.35 x 17.35	17.60		40.0 x 43.0	CL
IC201-026 KS-13784	128	20.0 x 20.0	22.0 x 22.0	-	0.69	37.0 x 36.7	OT
IC248-1284-007 *-*	128	14.0 x 20.0	16.0 x 22.0	-	0.67	37.4 x 43.4	OT
IC357-1284-033*	128	14.0 x 20.0	22.0 x 22.0	-	1.10	31.0 x 37.0	OT
IC500-1284-007	128	14.0 x 20.0	16.0 x 22.0	-	0.625	33.6 x 39.6	OT
IC51-1284-1433	128	14.0 x 20.0	16.0 x 22.0	15.2x21.2	-	46.0 x 43.0	CL
IC51-1284-1433-10	128	14.0 x 20.0	17.2 x 23.2	16.4x22.4	-	46.0 x 43.0	CL
IC51-1284-1433-19	128	14.0 x 20.0	17.9 x 23.9	16.4x22.4	-	46.0 x 43.0	CL
IC201-1444-026 *-2	144	20.0 x 20.0	22.0 x 22.0	-	0.69	37.0 x 37.0	OT
IC201-1444-034 *	144	20.0 x 20.0	22.0 x 22.0	-	0.65	37.0 x 37.0	OT
IC234-1444-007 *	144	20.0 x 20.0	22.0 x 22.0	-	-		OT
IC234-1444-016 *	144	20.0 x 20.0	22.0 x 22.0	-	0.8370	37.0 x 37.0	OT
IC402-1444-003*	144	20.0 x 20.0	22.0 x 22.0	21.30	0.80	30.0 x 30.0	OT
IC500-1444-002P-2	144	20.0 x 20.0	22.0 x 22.0		0.68	37.0 x 37.0	OT
IC51-1444-1354	144	20.0 x 20.0	22.0 x 22.0	21.30	1.00	43.0 x 47.0	CL
IC51-1444-1354-7	144	20.0 x 20.0	22.0 x 22.0	21.30	0.50	43.0 x 47.0	CL
IC51-1604-1350	160	24.0 x 24.0	26.0 x 26.0	25.30	-	46.0 x 50.0	CL
IC201-1764-033	176	24.0 x 24.0	26.0 x 26.0	-	0.67	40.0 x 46.0	OT
IC234-1764-002 *	176	24.0 x 24.0	26.0 x 26.0	-	1.00	46.0 x 46.0	OT
IC234-1764-005 *	176	24.0 x 24.0	26.0 x 26.0	-	1.00	46.0 x 46.0	OT
IC234-1764-121 *	176	24.0 x 24.0	26.0 x 26.0	-	1.00	40.0 x 46.0	OT
IC357-1764-061	176	24.0 x 24.0	26.0 x 24.0	-	0.615	41.0 x 41.0	OT
IC357-1764-081	176	24.0 x 24.0	26.0 x 24.0	-	0.6375	36.0 x 36.0	OT
IC357-1764-087	176	24.0 x 24.0	26.0 x 24.0	-	0.735	41.0 x 41.0	OT
IC357-1764-094	176	24.0 x 24.0	26.0 x 24.0	-	0.735	41.0 x 41.0	OT
IC51-1764-1505	176	24.0 x 24.0	26.0 x 26.0	25.30	0.90	46.0 x 50.0	CL
IC51-1764-1505-10	176	24.0 x 24.0	26.0 x 26.0	25.30	0.50	46.0 x 50.0	CL
IC51-1764-1505-5	176	24.0 x 24.0	26.0 x 26.0	25.30	0.50	46.0 x 50.0	CL
IC200-2084-009 *-*	208	28.0 x 28.0	31.2 x 31.2	-	1.40	51.2 x 52.2	OT
IC200-2084-010 *-*	208	28.0 x 28.0	30.6 x 30.6	-	1.40	50.6 x 50.6	OT
IC201-2084-001 *-*	208	28.0 x 28.0	30.0 x 30.0	-	1.50	45.0 x 45.0	OT
IC201-2084-029 *	208	28.0 x 28.0	30.6 x 30.6	-	1.67	45.6 x 45.6	OT
IC201-2084-096	208	28.0 x 28.0	30.0 x 30.0	-	0.55	45.0 x 45.0	OT
IC357-2084-019P-2	208	28.0 x 28.0	30.6 x 30.6	-	-	45.6 x 45.6	OT
IC51-2084-1052-*	208	28.0 x 28.0	-	-	-	52.0 x 58.0	CL
IC51-2084-1052-1	208	28.0 x 28.0	30.0 x 30.0	29.30	-	52.0 x 58.0	CL
IC51-2084-1052-13	208	28.0 x 28.0	30.6 x 30.6	29.70	-	52.0 x 58.0	CL
IC51-2084-1052-35	208	28.0 x 28.0	31.2 x 31.2	29.95	-	52.0 x 58.0	CL
IC51-2084-1052-36	208	28.0 x 28.0	30.0 x 30.0	29.30	-	52.0 x 58.0	CL
IC51-2084-1052-9	208	28.0 x 28.0	30.6 x 30.6	29.70	-	52.0 x 58.0	CL
IC51-2084-1052-55	208	28.0 x 28.0	30.6 x 30.6	29.95	-	52.0 x 58.0	CL
IC51-2084-1509	208	27.7 x 27.7	31.2 x 31.2	29.80	-	52.0 x 58.0	CL
IC51-2084-1566	208	28.0 x 28.0	31.2 x 31.2	30.30	-	52.0 x 58.0	CL
IC217-2404-007 *	240	32.0 x 32.0	34.6 x 34.6	-	1.75	56.1 x 56.1	OT
IC234-2404-030 *	240	32.0 x 32.0	34.6 x 34.6	-	2.06	51.6 x 51.6	OT
IC51-2404-1655-2	240	32.0 x 32.0	34.6 x 34.6	33.80	-	56.0 x 62.0	CL
IC201-2564-002 *-*-2	256	28.0 x 40.0	30.6 x 40.6	-	1.50	45.6 x 57.6	OT
IC51-2724-1727	272	35.9 x 35.9	37.4 x 37.4	37.60	-	58.0 x 72.0	CL
IC201-3044-004	304	40.0 x 40.0	42.6 x 42.6	-	1.50	57.6 x 57.6	OT
IC51-3044-1471-2	304	39.95 x 39.95	42.6 x 42.6	41.90	-	66.0 x 72.0	CL
IC51-3044-1471-5	304	39.64 x 39.64	42.6 x 42.6	41.90	-	66.0 x 72.0	CL

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