

O.40MM PITCH

SERIES IC51 (CLAMSHELL - TH) - QFP, PQFP, TQFP AND MQQUAD®

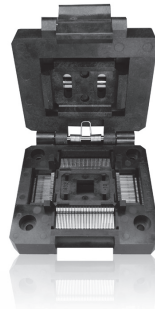
*QFP variations e.g. BQFP...

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 - 1972

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.

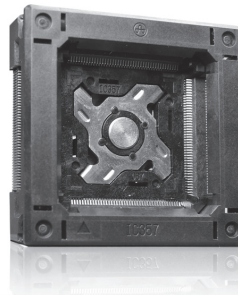
SERIES IC357 (OPEN TOP - TH) QUAD FLAT PACKAGE (QFP) WITH 2-POINT CONTACT TYPE

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

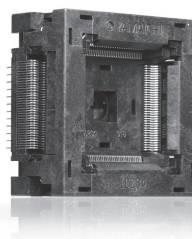
SERIES IC234 (OPEN TOP - TH) QUAD FLAT PACKAGE (QFP) WITH SHOULDER CONTACT TYPE

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

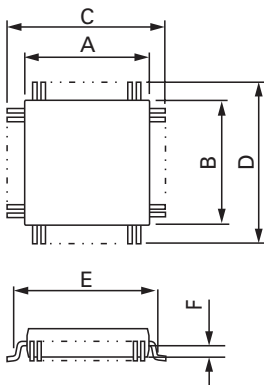
IC234 - 128 4 - 043 - *

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**	↑

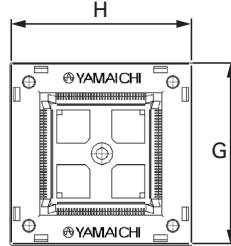
** Protection Key: Prevents IC from releasing during transportation

0.40MM PITCH

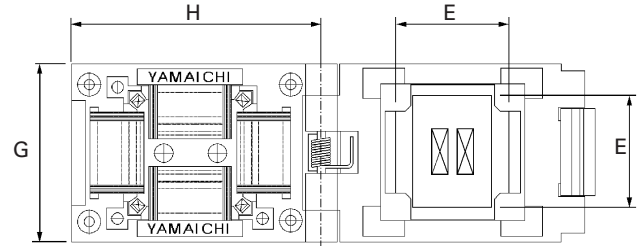
Outline IC Package Dimensions



Outline Open Top Socket Dimensions



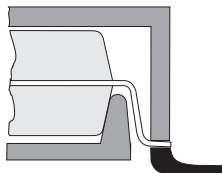
Outline Clamshell Socket Dimensions



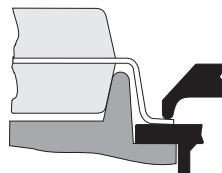
C L = Clamshell, OT = Open Top

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
IC51-0644-1972	64	7.0 x 7.0	9.0 x 9.0	8.25	-	35.0 x 32.0	CL
IC234-0804-055	80	10.0 x 10.0	12.0 x 12.0	-	0.7375	30.0 x 30.0	OT
IC234-1004-045	100	12.0 x 12.0	14.0 x 14.0	-	0.56	35.0 x 32.0	OT
IC51-1004-1919-*	100	12.0 x 12.0	14.0 x 14.0	13.30	-	36.0 x 42.5	CL
IC234-1204-022 *	120	14.0 x 14.0	16.0 x 16.0	-	0.762	34.0 x 34.0	OT
IC51-1204-1596	120	14.0 x 14.0	16.0 x 16.0	15.35	-	36.0 x 42.5	CL
IC51-1204-1812	120	14.0 x 14.0	16.0 x 16.0	-	-	36.0 x 42.5	CL
IC234-1284-043 *	128	14.0 x 14.0	16.0 x 16.0	-	0.56	34.0 x 34.0	OT
IC357-1284-056	128	14.0 x 14.0	16.0 x 16.0	-	0.65	34.0 x 34.0	OT
IC357-1284-076	128	14.0 x 14.0	16.0 x 16.0	-	0.45	34.0 x 34.0	OT
IC51-1284-1702	128	14.0 x 14.0	16.0 x 16.0	15.40	-	36.0 x 42.5	CL
IC51-1284-1702-2	128	14.0 x 14.0	16.0 x 16.0	15.40	-	36.0 x 42.5	CL
IC51-1284-1788	128	14.0 x 14.0	16.0 x 16.0	15.30	0.70	39.0 x 42.5	CL
IC234-1444-053 *	144	16.0 x 16.0	18.0 x 18.0	-	0.54	36.0 x 36.0	OT
QFP11T144-001	144	16.0 x 16.0	18.0 x 18.0	17.20	-	39.0 x 42.5	OT
IC234-1564-038P-2	156	14.0 x 14.0	16.0 x 16.0	-	0.76	38.0 x 44.0	OT
IC234-1764-059 *	176	20.0 x 20.0	22.0 x 22.0	-	0.67	40.0 x 40.0	OT
IC51-1764-1995	176	14.0 x 20.0	22.0 x 22.0	21.30	-	46.0 x 50.0	CL
IC51-1764-1995-6	176	20.0 x 20.0	22.0 x 22.0	21.20	-	46.0 x 50.0	CL
IC234-2164-050 *	216	20.0 x 20.0	26.0 x 26.0	-	0.67	44.0 x 44.0	OT
IC234-2164-066-*	216	20.0 x 20.0	26.0 x 26.0	-	0.67	44.0 x 44.0	OT
IC51-2164-1887	216	24.0 x 24.0	26.0 x 26.0	25.30	-	50.0 x 48.0	CL
IC51-2164-1887-10	216	24.0 x 24.0	26.0 x 26.0	25.30	-	50.0 x 48.0	CL
IC234-2564-020 *	256	24.0 x 24.0	30.0 x 30.0	-	0.67	48.0 x 48.0	OT
IC234-2564-078 *	256	24.0 x 24.0	30.0 x 30.0	-	0.67	48.0 x 48.0	OT
IC51-2564-1668	256	28.0 x 28.0	31.2 x 31.2	30.00	-	56.0 x 62.0	CL
IC51-2564-1668-10	256	28.0 x 28.0	30.0 x 30.0	29.40	-	56.0 x 62.0	CL
IC51-2564-1668-6	256	27.2 x 27.2	29.8 x 29.8	30.00	-	56.0 x 62.0	CL
IC51-2564-1668-8	256	28.0 x 28.0	30.6 x 30.6	30.00	-	56.0 x 62.0	CL

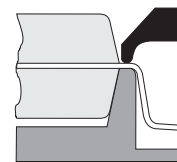
CONTACT STYLES



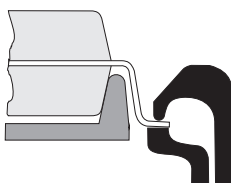
SERIES IC51



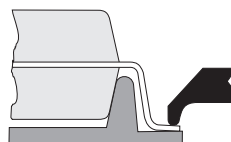
SERIES IC357 / IC402



SERIES IC234



SERIES IC (KELVIN)



SERIES IC2**



SERIES IC500

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[IC51-1284-1788](#) [IC51-1284-1702-2](#) [IC51-1284-1702](#)