

**SERIES NP506, NP404, NP473, NP445, NP364 / IC549, IC550 / QFN11T**

**SPECIFICATIONS**

Insulation Resistance: 10,000MΩ min. at 100V DC  
 Withstanding Voltage: 100V AC for 1 minute  
 Contact Resistance: 100mΩ or less  
 Operating Temp.Range: -40°C to +150°C

**MATERIALS AND FINISH**

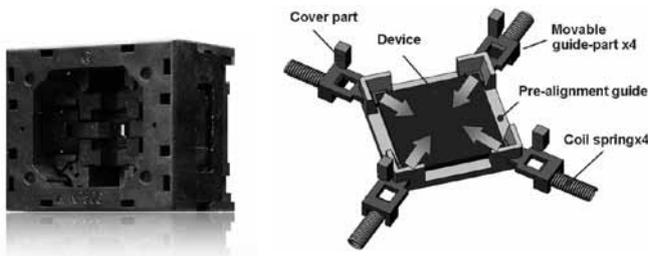
Housing: Polyetherimide (PEI), glass-filled  
 Polyethersulphone (PES), glass-filled  
 Contacts: Beryllium Copper (BeCu)  
 Plating: Gold over Nickel

**SERIES NP506 (OPEN TOP - TH)**

**SPECIFICATIONS / MATERIAL AND FINISH**  
 (see above)

**FEATURES**

- Active alignment for IC package positioning

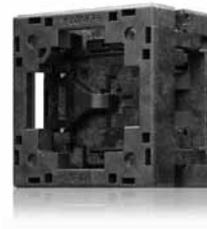


**SERIES NP404 (OPEN TOP - TH)**

**SPECIFICATIONS / MATERIAL AND FINISH**  
 (see above)

**FEATURES**

- Buckling Beam contacts

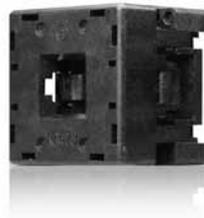


**SERIES NP473 AND NP364 (OPEN TOP - TH)**

**SPECIFICATIONS / MATERIAL AND FINISH**  
 (see above)

**FEATURES**

- 0.50 and 1.00 mm pitch
- Buckling Beam contacts
- Low actuation force

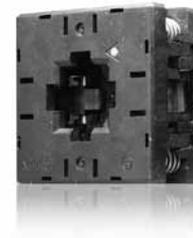


**SERIES NP445 (OPEN TOP - TH)**

**SPECIFICATIONS / MATERIAL AND FINISH**  
 (see above)

**FEATURES**

- Centre Contact available for exposed pads



**SERIES IC549 AND IC550 (CLAMSHELL - TH)**

**SPECIFICATIONS / MATERIAL AND FINISH**  
 (see above)

**FEATURES**

- Centre Contact available for exposed pads, heat sink and floating base non sticking option
- Accommodates 0.5 ~ 1.2mm thick package



**SERIES QFN11T (CLAMSHELL - TH)**

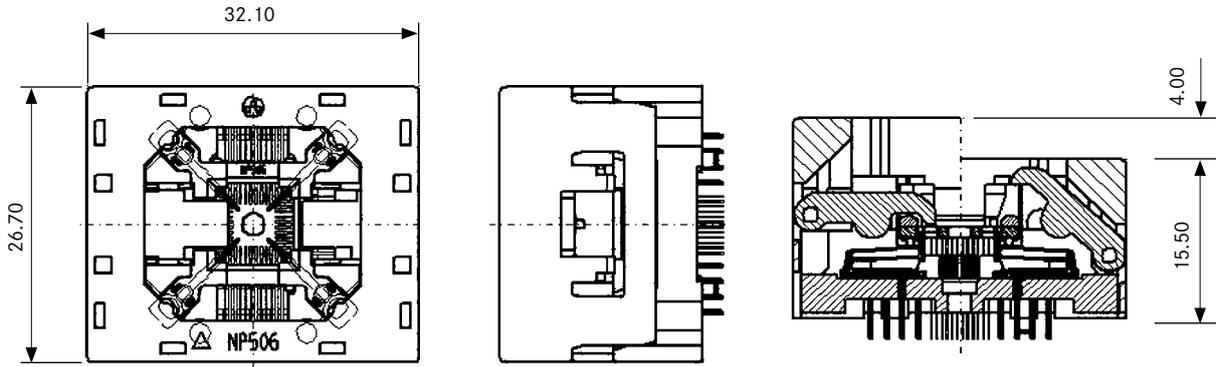
**SPECIFICATIONS / MATERIAL AND FINISH**  
 (see above)

**FEATURES**

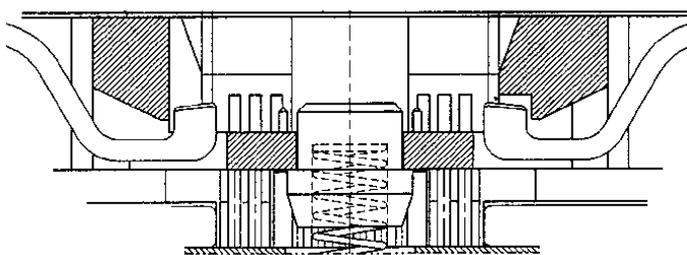
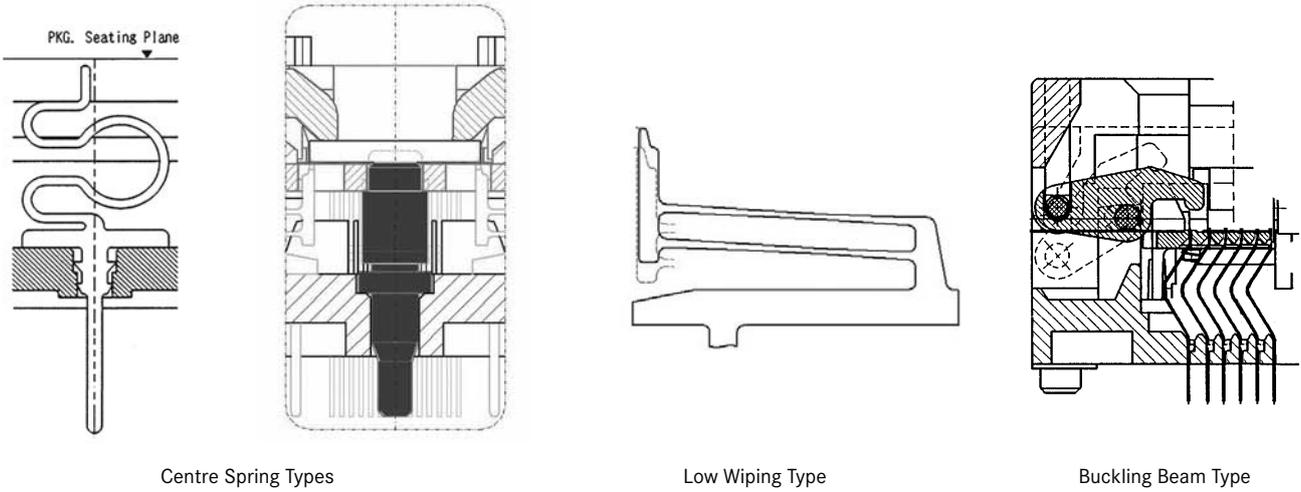
- Centre Contact available for exposed pads
- Probe Pins
- Heat sink



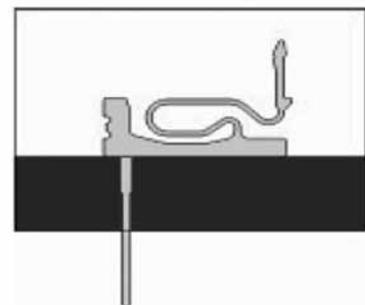
TYPICAL (NP506) OPEN TOP SOCKET DIMENSIONS



CONTACT TYPES

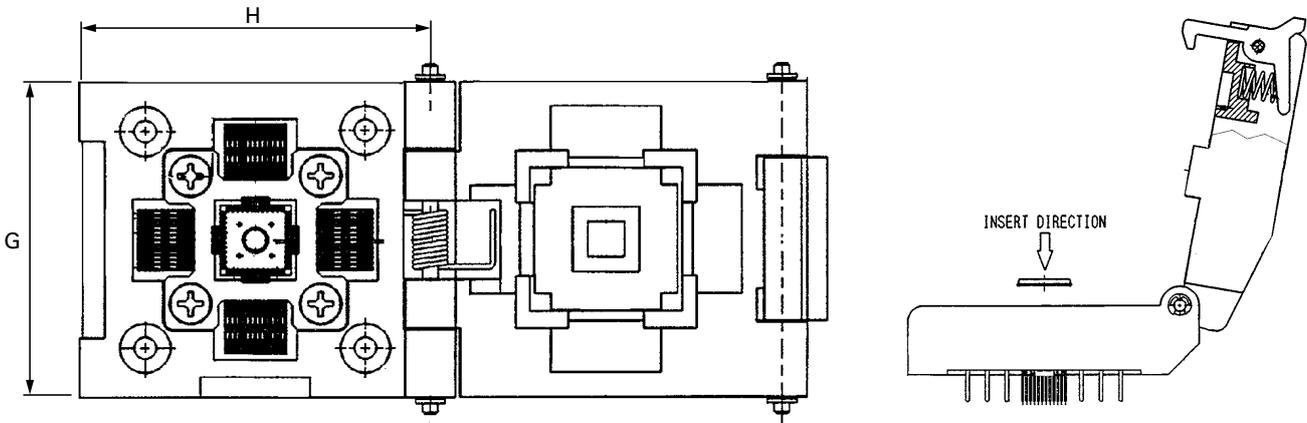


Standard Contact Type



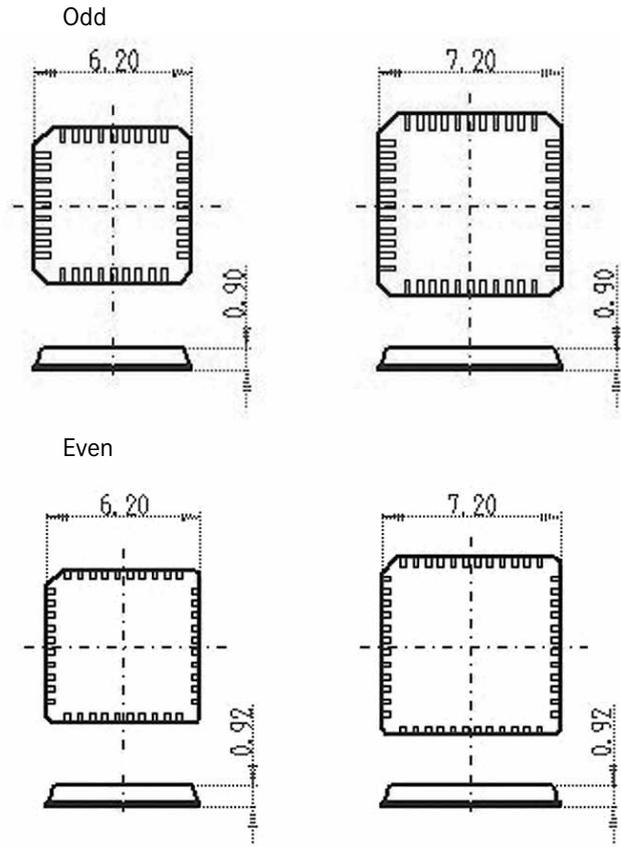
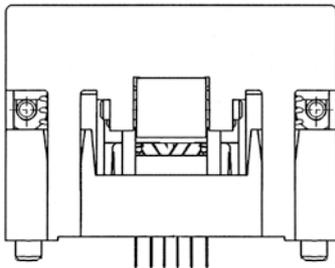
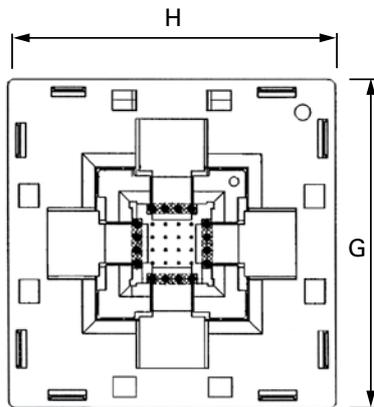
Low Wiping Type

TYPICAL CLAMSHELL SOCKET DIMENSIONS



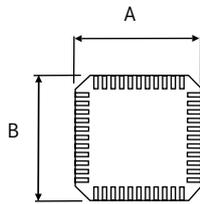
TYPICAL (NP404) OPEN TOP SOCKET

PACKAGE OUTLINE

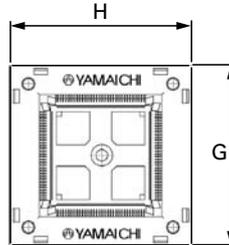


SOCKET DIMENSIONS

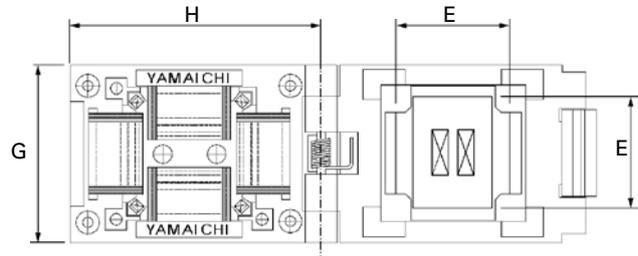
Outline IC Body Dimensions



Outline Open Top Socket Dimensions



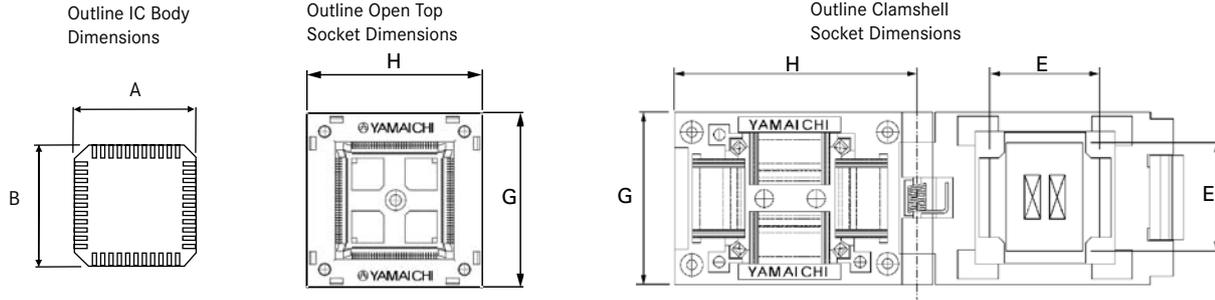
Outline Clamshell Socket Dimensions



0.40MM PITCH

Part Number	Pin Count	IC Body Dim. A x B	IC Body Dim. C (Ht.)	Center pin	Socket Dim. G X H	Pins (each side)	Package Type
IC549-0204-005	20	3 x 3	0.5 -1.2	No	24.5 x 22.0	5 x 5	LID
IC549-0204-005-G	20	3 x 3	0.5 -1.2	1	24.5 x 22.0	5 x 5	LID
IC549-0284-003	28	4 x 4	0.5 -1.2	No	24.5 x 22.0	6 x 6	LID
IC549-0284-003-G	28	4 x 4	0.5 -1.2	1	24.5 x 22.0	6 x 6	LID
NP506-028-046-SCG	28	4 x 4	0.75	1	25.0 x 25.0	7 x 7	OT
IC549-0324-006	32	4 x 4	0.5 -1.2	No	24.5 x 22.0	8 x 8	LID
IC549-0324-006-G	32	4 x 4	0.5 -1.2	1	24.5 x 22.0	8 x 8	LID
NP506-032-039-SCG	32	4 x 4	0.85	1	25.0 x 25.0	8 x 8	OT
NP506-036-049-SCG	36	5 x 5	0.85	1	25.0 x 25.0	9 x 9	OT
IC549-0404-004	40	5 x 5	0.5 -1.2	No	24.5 x 22.0	10 x 10	LID
IC549-0404-004-G	40	5 x 5	0.5 -1.2	1	24.5 x 22.0	10 x 10	LID
NP506-040-007-SG	40	5 x 5	0.90	1	32.1 x 26.7	10 x 10	OT
NP506-040-026-SG	40	5 x 5	0.90	1	32.1 x 26.7	10 x 10	OT
NP506-040-048-SCG	40	5 x 5	0.75	1	25.0 x 25.0	10 x 10	OT
NP506-044-050-SCG	44	6 x 6	0.75	1	25.0 x 25.0	11 x 11	OT
IC549-0484-010	48	6 x 6	0.5 -1.2	No	24.5 x 22.0	12 x 12	LID
IC549-0484-010-G	48	6 x 6	0.5 -1.2	1	24.5 x 22.0	12 x 12	LID
NP506-048-002-SG	48	6 x 6	0.90	1	32.1 x 26.7	12 x 12	OT
NP506-048-025-SG	48	6 x 6	0.90	1	32.1 x 26.7	12 x 12	OT
NP506-048-044-SCG	48	7 x 7	0.75	1	25.0 x 25.0	12 x 12	OT
NP506-052-052-SCG	52	7 x 7	0.75	1	25.0 x 25.0	13 x 13	OT
NP506-056-006-SG	56	7 x 7	0.90	1	32.1 x 26.7	14 x 14	OT
NP506-056-009-SG	56	7 x 7	0.85	1	32.1 x 26.7	14 x 14	OT
NP506-056-051-SCG	56	7 x 7	0.75	1	25.0 x 25.0	17 x 17	OT
IC549-0644-008	64	8 x 8	0.5 -1.2	No	24.5 x 22.0	16 x 16	LID
IC549-0644-008-G	64	8 x 8	0.5 -1.2	1	24.5 x 22.0	16 x 16	LID
NP506-064-038-S	64	8 x 8	0.75	No	36.0 x 31.0	16 x 16	OT
NP506-064-038-SG	64	8 x 8	0.75	1	36.0 x 31.0	16 x 16	OT
QFN11T064-005	64	8 x 8	0.80	2+1	35.0 x 32.0	16 x 16	LID
NP506-068-011-SCG	68	8 x 8	0.75	1	25.0 x 25.0	17 x 17	OT
NP506-068-020-S	68	8 x 8	0.90	No	36.0 x 31.0	17 x 17	OT
NP506-068-020-SG	68	8 x 8	0.90	1	36.0 x 31.0	17 x 17	OT
QFN11T068-002	68	8 x 8	0.90	2+1	35.0 x 32.0	16 x 16	LID
QFN11T068-002 A108429-001	68	8 x 8	0.90	No	35.0 x 32.0	16 x 16	LID
QFN11T076-001	76	9 x 9	0.90	2+1	35.0 x 32.0	19 x 19	LID
QFN11T080-001	80	9 x 9	0.75	2+1	35.0 x 32.0	20 x 20	LID
QFN11T084-002	84	10 x 10	0.90	2	35.0 x 32.0	21 x 21	LID
NP506-088-014	88	10 x 10	0.85	1	36.0 x 31.0	22 x 22	OT
NP506-088-017-SCG	88	10 x 10	0.85	1	36.0 x 31.0	22 x 22	OT
QFN11T088-001	88	10 x 10	0.90	2+1	35.0 x 32.0	22 x 22	LID
IC549-1084-004	108	12 x 12	0.5 -1.2	No	24.5 x 22.0	27 x 27	LID
IC549-1084-007-G	108	12 x 12	0.5 -1.2	1	24.5 x 22.0	27 x 27	LID

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0.50MM PITCH

Part Number	Pin Count	IC Body Dim. A x B	IC Body Dim. C (Ht.)	Center pin	Socket Dim. G X H	Pins (each side)	Package Type
IC550-0124-003	12	3 x 3	0.5 - 1.2	No	24.5 x 22	3 x 3	LID
IC550-0124-003-G	12	3 x 3	0.5 - 1.2	1	24.5 x 22	3 x 3	LID
IC550-0164-005	16	4 x 4	0.5 - 1.2	No	24.5 x 22	4 x 4	LID
IC550-0164-005-G	16	4 x 4	0.5 - 1.2	1	24.5 x 22	4 x 4	LID
IC550-0364-016	16	6 x 6	0.5 - 1.2	NO	24.5 x 22	4 x 4	LID
IC550-0364-016-G	16	6 x 6	0.5 - 1.2	1	24.5 x 22	4 x 4	LID
NP404-016-019-1	16	4 x 5	0.75	4	32 x 32	4 x 4	OT
NP404-01613-1	16	3 x 3	0.90	No	32 x 32	4 x 4	OT
NP404-01613-1 A108715-001	16	3 x 3	0.90	4	32 x 32	4 x 4	OT
IC550-0204-008	20	3 x 3	0.5 - 1.2	No	24.5 x 22	5 x 5	LID
IC550-0204-008-G	20	3 x 3	0.5 - 1.2	1	24.5 x 22	5 x 5	LID
IC550-0204-009	20	4 x 4	0.5 - 1.2	No	24.5 x 22	5 x 5	LID
IC550-0204-009-G	20	4 x 4	0.5 - 1.2	1	24.5 x 22	5 x 5	LID
NP473-020-004-1	20	4 x 4	0.5 - 1.2	No	25 x 25	5 x 5	OT
NP506-020-035-CG	20	4 x 4	0.75	1	25 x 25	5 x 5	OT
IC550-0244-015	24	4 x 4	0.5 - 1.2	No	24.5 x 22	6 x 6	LID
NP404-02412-1	24	4 x 4	0.75	No	32 x 32	6 x 6	OT
NP404-02412-1 A107658-001	24	4 x 4	0.75	4	32 x 32	6 x 6	OT
NP506-024-032-C	24	4 x 4	0.75	No	25 x 25	6 x 6	OT
NP506-024-032-CG	24	4 x 4	0.75	1	25 x 25	6 x 6	OT
QFN11T024-002	24	3.5 x 4.5	0.95	No	32 x 29	4 x 8	LID
QFN11T024-002 A105533-001	24	3.5 x 4.5	0.95	No	32 x 29	4 x 8	NO LID
QFN11T024-006	24	3.5 x 4.5	0.90	No	32 x 29	2 x 10	LID
IC550-0284-011	28	5 x 5	0.5 - 1.2	NO	24.5 x 22	7 x 7	LID
IC550-0284-011-G	28	5 x 5	0.5 - 1.2	1	24.5 x 22	7 x 7	LID
NP404-028-021-1	28	4 x 5	1.00	4	32 x 32	6 x 8	OT
NP506-028-028-CG	28	5 x 5	0.90	1	25 x 25	7 x 7	OT
IC550-0324-007	32	5 x 5	0.5 - 1.2	No	24.5 x 22	8 x 8	LID
IC550-0324-007-G	32	5 x 5	0.5 - 1.2	1	24.5 x 22	8 x 8	LID
NP445-032-003	32	5 x 5	0.85	2	32.8 x 32.8	8 x 8	OT
NP473-032-006-1	32	5.1 x 6.2	0.90	No	32 x 32	7 x 9	OT
NP506-032-005-G	32	5 x 5	0.86	1	32.1 x 26.7	8 x 8	OT
NP506-032-013-G	32	5 x 5	0.31 - 0.6	1	32.1 x 26.7	8 x 8	OT
NP506-032-031-C	32	5 x 5	0.75	No	25 x 25	8 x 8	OT
NP506-032-031-CG	32	5 x 5	0.75	1	25 x 25	8 x 8	OT
QFN11T032-003	32	5 x 5	0.85	1	32 x 29	8 x 8	LID
QFN11T032-003 A105525-001	32	5 x 5	0.85	1	32 x 29	8 x 8	NO LID
NP473-036-007-1	36	6 x 6	0.85	No	25 x 25	9 x 9	OT
NP506-036-034-C	36	6 x 6	0.85	No	25 x 25	9 x 9	OT
QFN11T036-004	36	6 x 6	0.65	1	35 x 32	9 x 9	LID
IC550-0404-012	40	6 x 6	0.5 - 1.2	No	24.5 x 22	10 x 10	LID
NP404-040-020-1	40	6 x 6	0.90	No	32 x 32	10 x 10	OT
NP404-04016-1	40	6 x 6	0.5 - 1.2	16	32 x 32	10 x 10	OT
NP506-040-030-C	40	6 x 6	0.75	No	25 x 25	10 x 10	OT
NP506-040-030-CG	40	6 x 6	0.75	1	25 x 25	10 x 10	OT
QFN11T040-005	40	5.5 x 6.5	0.85	No	35 x 32	8 x 12	LID

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0.50MM PITCH (CONT'D)

Part Number	Pin Count	IC Body Dim. A x B	IC Body Dim. C (Ht.)	Center pin	Socket Dim. G X H	Pins (each side)	Package Type
QFN11T040-006	40	6 x 6	0.88	1	34.5 x 29	10 x 10	LID
QFN11T040-006-N	40	6 x 6	0.88	No	34.5 x 29	10 x 10	LID
QFN11T040-009	40	6 x 6	0.88	1	32 x 29	10 x 10	LID
NP473-044-001-1	44	7 x 7	0.5 - 1.2	No	25 x 25	11 x 11	OT
NP506-044-036-C	44	7 x 7	0.75	No	25 x 25	11 x 11	OT
NP506-044-036-CG	44	7 x 7	0.75	1	25 x 25	11 x 11	OT
QFN11T044-004	44	7 x 7	0.80	1	32 x 29	11 x 11	LID
IC550-0484-004-G	48	7 x 7	0.5 - 1.2	1	24.5 x 22	12 x 12	LID
NP445-048-001	48	7 x 7	0.85	6	32.8 x 32.8	12 x 12	OT
NP445-048-004	48	7 x 7	0.50	6	32.8 x 32.8	12 x 12	OT
NP506-048-001	48	7.2 x 7.2	0.92	No	32.1 x 26.7	12 x 12	OT
NP445-048-004	48	7 x 7	0.50	6	32.8 x 32.8	12 x 12	OT
NP506-048-001	48	7.2 x 7.2	0.92	No	32.1 x 26.7	12 x 12	OT
NP506-048-008-G	48	7 x 7	0.90	1	32.1 x 26.7	12 x 12	OT
NP506-048-012-G	48	7 x 7	0.75	1	32.1 x 26.7	12 x 12	OT
NP506-048-015-G	48	7 x 7	0.90	1	32.1 x 26.7	12 x 12	OT
NP506-048-017-C	48	7 x 7	0.75	No	32.1 x 26.7	12 x 12	OT
NP506-048-017-CG	48	7 x 7	0.75	1	32.1 x 26.7	12 x 12	OT
QFN11T048-008	48	7 x 7	0.85	No	35 x 32	12 x 12	LID
QFN11T048-008 A101121-001	48	7 x 7	1.00	4	35 x 32	12 x 12	LID
QFN11T048-008 A105899-001	48	7 x 7	1.00	No	35 x 32	12 x 12	NO LID
QFN11T048-009	48	7 x 7	0.66	No	35 x 32	12 x 12	LID
NP506-052-018-CG	52	8.2 x 8.2	0.90	1	25 x 25	13 x 13	OT
NP506-052-037-C	52	8 x 8	0.75	No	25 x 25	13 x 13	OT
NP506-052-037-CG	52	8 x 8	0.75	1	25 x 25	13 x 13	OT
QFN11T052-003	52	8 x 8	0.90	4	35 x 32	13 x 13	LID
QFN11T052-004	52	8 x 8	0.80	1	32 x 29	13 x 13	LID
IC550-0564-010	56	8 x 8	0.5 - 1.2	No	24.5 x 22	14 x 14	LID
IC550-0564-010-G	56	8 x 8	0.5 - 1.2	1	24.5 x 22	14 x 14	LID
NP404-05610-1	56	8 x 8	0.5 - 1.2	No	32 x 32	14 x 14	OT
NP404-05610-1 A104902-001	56	8 x 8	0.5 - 1.2	8	32 x 32	14 x 14	OT
NP445-056-005	56	8 x 8	0.85	6	32.8 x 32.8	14 x 14	OT
NP506-056-027-C	56	8 x 8	0.75	No	25 x 25	14 x 14	OT
NP506-056-027-CG	56	8 x 8	0.75	1	25 x 25	14 x 14	OT
QFN11T056-003	56	8 x 8	0.90	4	35 x 32	14 x 14	LID
QFN11T060-001	60	9 x 9	0.90	1	35 x 32	15 x 15	LID
IC550-0644-006	64	9 x 9	0.5 - 1.2	No	24.5 x 22	16 x 16	LID
IC550-0644-006-G	64	9 x 9	0.5 - 1.2	1	24.5 x 22	16 x 16	LID
NP445-064-002	64	9 x 9	0.85	6	32.8 x 32.8	16 x 16	OT
NP445-064-007	64	9 x 9	1.00	4	32.8 x 32.8	16 x 16	OT
QFN11T064-006	64	9 x 9	0.90	8+1	35 x 32	16 x 16	LID
QFN11T068-003	68	10 x 10	0.90	8+1	35 x 32	17 x 17	LID
NP404-07215-1	72	10 x 10	0.85	No	32 x 32	18 x 18	OT
NP404-07215-1 A107620-001	72	10 x 10	0.85	16	32 x 32	18 x 18	OT
QFN11T072-001	72	10 x 10	0.90	8+1	35 x 32	18 x 18	LID
IC550-0804-014	80	12 x 12	0.5 - 1.2	No	24.5 x 22	20 x 20	LID
IC550-0804-014-G	80	12 x 12	0.5 - 1.2	1	24.5 x 22	20 x 20	LID
IC550-0804-013-G	88	12 x 12	0.5 - 1.2	No	24.5 x 22	22 x 22	LID
IC550-0804-013-G	88	12 x 12	0.5 - 1.2	1	24.5 x 22	22 x 22	LID
QFN11T040-004	36/40	6 x 6	0.80	1	32 x 29	9 x 11	LID
QFN11T048-005	44/48	7 x 7	0.80	1	32 x 29	11 x 13	LID
QFN11T048-005 A105540-001	44/48	7 x 7	0.80	1	32 x 29	11 x 13	NO LID
QFN11T056-001	52/56	8 x 8	0.80	1	32 x 29	13 x 15	LID
QFN11T056-001 A105524-001	52/56	8 x 8	0.80	1	32 x 29	13 x 15	NO LID

1.00MM PITCH

Part Number	Pin Count	IC Body Dim. A x B	IC Body Dim. C (Ht.)	Center pin	Socket Dim. G X H	Pins (each side)	Package Type
NP364-01649	16	6 x 6	1.98	No	25 x 25	4 x 4	OT