

SOP/QFP/QFN(LCC)/QFJ(PLCC)/TCP

- Sockets for SOP, QFP and other surface-mount IC packages.
- Custom designs also available for multi-lead, fine-pitch and other special packages.

Contact our Sales Department for detail. Specifications differ by the contact pitch and other requirements.

Housing	PES (glass-filled), PEI (glass-filled), etc. (see note)
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Contacts	Copper alloy, gold plating over nickel
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Note: Contact our Sales Department about housing material.

IC51-0644-038

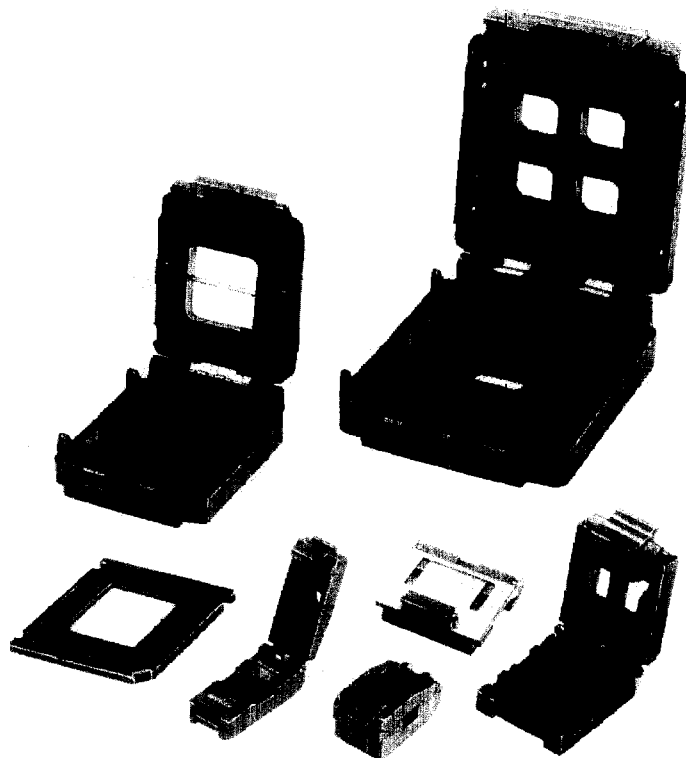
IC sockets

Series name

Number of leads

Contact orientation

Design number (for internal use only)



* Contact our Sales Department about socket applicability. Have IC outline dimensions ready before calling.

Package name	SOP	QFP	QFN (LCC)	QFJ (PLCC)
Shape				

Pedestal: The pedestal inside the socket ensures accurate positioning of the IC leads and contacts.
Parallel clamp: The parallel clamp prevents IC leads from bending under pressure.

Technical drawing of a rectangular plate. The top view shows a rectangle with overall width A and overall height B . A central rectangular hole has width W . The side view shows the plate has a thickness C and a central raised section.

IC 51/53 SERIES

SOP/QFP/QFN(LCC)/QFJ(PLCC)/TCP

SOP

Part No.	No. of Leads	Pitch	Max. Width (W)	Carrier Position	Mounting Notation	Package	Remarks
IC51-0122-1836	12	0.80	4.45	5.90	PEI	SOP	
IC51-0142-084	14	1.27	4.50	4.70	PES	SOP	
IC51-0142-189	14	1.27	7.00	9.60	PSF	SOP	
IC51-0142-951	14	1.25	4.50	5.20	PES	SOP	
IC51-0162-109	16	1.27	5.20	6.30	PSF	SOP	
IC51-0162-150	16	1.27	4.70	4.90	PSF	SOP	
IC51-0162-271-1	16	1.27	5.50	5.22	PSF	SOP	
IC51-0162-271-2	16	1.27	5.00	5.22	PSF	SOP	
IC51-0162-271-3	16	1.27	4.50	5.22	PSF	SOP	
IC51-0162-272-1	16	1.27	5.50	5.72	PSF	SOP	
IC51-0162-272-2	16	1.27	5.00	5.72	PSF	SOP	
IC51-0162-272-3	16	1.27	4.50	5.72	PSF	SOP	
IC51-0162-273-1	16	1.27	5.50	6.22	PSF	SOP	
IC51-0162-273-2	16	1.27	5.00	6.22	PSF	SOP	
IC51-0162-273-3	16	1.27	4.50	6.22	PSF	SOP	
IC51-0162-302	16	1.27	5.30	7.40	PSF	SOP	
IC51-0162-658	16	1.27	4.50	5.20	PES	SOP	
IC51-0162-902	16	1.27	5.30	7.40	PES	SOP	
IC51-0162-911	16	0.65		5.50	PES	SSOP	6.4X5.0X1.2 (note)
IC51-0202-184	20	1.27	5.70	6.40	PSF	SOP	
IC51-0202-347	20	1.27	7.70	9.35	PSF	SOP	
IC51-0202-714	20	1.27	5.35	9.00	PES	SOP	Pedestal
IC51-0202-912	20	0.65		5.50	PES	SSOP	6.4X6.5X1.2 (note)
IC51-0202-932	20	1.27	5.40	6.90	PES	SOP	
IC51-0222-151	22	1.27	5.70	6.30	PSF	SOP	
IC51-0222-803	22	1.27	5.50	6.40	PES	SOP	
IC51-0242-238	24	1.27	9.40	11.43	PSF	SOP	
IC51-0242-269	24	1.27	9.40	10.93	PSF	SOP	
IC51-0242-270	24	1.27	9.40	11.93	PSF	SOP	
IC51-0242-303	24	1.27	6.00	7.40	PSF	SOP	
IC51-0242-308	36	0.80	6.40	7.20	PSF	SOP	
IC51-0242-310	24	1.00	4.55	5.22	PSF	SOP	
IC51-0242-367	24	1.27	9.40	11.43	PSF	SOP	
IC51-0242-577	24	0.80	7.85	9.00	PES	SOP	
IC51-0242-793	24	1.27	5.50	6.30	PES	SOP	
IC51-0242-913	24	0.65		6.70	PES	SSOP	7.6X7.8X1.2 (note)
IC51-0282-153	28	1.27	8.70	10.80	PSF	SOP	
IC51-0282-165	28	1.27	7.40	8.10	PSF	SOP	
IC51-0282-474	28	1.27	8.45	10.50	PES	SOP	
IC51-0282-495	28	1.27	6.00	10.80	PES	SOP	
IC51-0302-255	30	1.27	8.00	8.90	PSF	SOP	
IC51-0302-371-1	30	1.27	7.80	9.20	PES	SOP	
IC51-0302-371-2	30	1.27	8.00	9.20	PES	SOP	
IC51-0302-904	30	1.27	7.80	9.50	PES	SOP	
IC51-0302-914	30	0.65		6.70	PES	SSOP	7.6X9.7X1.2 (note)
IC51-0322-304	32	1.27	8.45	10.20	PSF	SOP	
IC51-0322-667-2	32	1.27	11.60	12.40	PES	SOP	
IC51-0322-883	32	0.50	13.73	14.30	PES	TSOP-I	Pedestal
IC51-0322-910	32	1.60	9.00	14.40	PES	TSOP-I	Pedestal
IC51-0322-937	32	1.27	8.90	10.80	PES	SOP	
IC51-0322-948	32	1.00	8.20	11.08	PES	SOP	
IC51-0342-741	34	1.00	7.80	8.10	PES	SOP	
IC51-0362-309	36	0.80	9.50	10.90	PSF	SOP	
IC51-0402-1557	40	0.50		13.30	PEI	TSOP-I	
IC51-0402-708	40	0.80	8.80	10.50	PES	SOP	
IC51-0402-991	40	1.27	11.60	13.20	PES	SOP	
IC51-0422-393	42	0.80	8.50	10.90	PSF	SOP	
IC51-0442-1709	44	0.80	11.76	10.80	PEI	TSOP-II	
IC51-0482-2018	48	0.50	18.40	19.20	PEI	TSOP-I	
IC51-0562-1387	56	0.64		9.30	PES	SSOP	
IC51-0702-1965	70	0.80	12.80	14.30	PEI	SSOP	
IC51-0722-1955	72	0.65	11.00	12.10	PEI	SSOP	

Note: Values refer to dimensions A × B × C

Unit = mm

IC 51/53 SERIES

SOP/QFP/QFN(LCC)/QFJ(PLCC)/TCP

QFP

Part No.	No. of Leads	Pitch	Contact Position	Package Dimensions (mm)	QFN Standard	Housing Material	Remarks
IC51-0444-467	44	0.8	12.3×12.3	10.1×10.1	10×10	PES	Notched corner
IC51-0444-615	44	1	16.3×17.4	14.5×14.5	14×14	PES	
IC51-0444-621	44	1	16.6×17.4	14.5×14.5	14×14	PES	Notched corner
IC51-0444-798	44	0.8	12.0×12.0	11.6×11.6	10×10	PES	
IC51-0444-825	44	0.8	11.1×11.1	10.1×10.1	10×10	PES	
IC51-0444-954	44	0.8	15.9×15.9	14.9×14.9	14×14	PES	
IC51-0484-630	48	0.8	16.0×16.0	12.5×12.45		PES	
IC51-0484-652	48	0.65	11.0× 8.0	10.4× 7.4	10× 7	PES	
IC51-0484-831	48	1	16.5×17.5	14.5×14.5	14×14	PEI	
IC51-0564-790	56	1.0	18.0×24.0	16.2×20.2		PES	
IC51-0564-924	56	0.8	11.0×15.6	10.5×14.5		PEI	Parallel clamp
IC51-0604-468	60	0.8	16.6×16.6	14.1×14.1	14×14	PES	
IC51-0604-497	60	1	18.0×24.0	16.2×22.2	14×20	PES	
IC51-0644-472	64	1	18.0×24.0	16.2×22.2	14×20	PES	
IC51-0644-692	64	0.8	16.2×16.4	15.0×15.0	14×14	PES	
IC51-0684-734	68	0.65	11.6×15.6	10.5×14.5	10×14	PES	
IC51-0724-698	72	0.8	17.2×22.1	16.0×20.5	14×20	PES	
IC51-0804-711	80	0.65	15.6×15.6	14.5×14.5	14×14	PES	
IC51-0804-795	80	0.65	15.0×15.0	14.4×14.4	14×14	PES	
IC51-0804-819	80	0.8	(*) 3 types		14×20	PES	Parallel clamp (inquire for detail)
IC51-0804-956	80	0.65	15.6×15.6	14.9×14.9	14×14	PES	
IC51-1004-395	100	0.65	17.0×24.0	14.6×20.6	14×20	PES	
IC51-1004-814	100	0.65	(*) 3 types		14×20	PES	Parallel clamp (inquire for detail)
IC51-1004-958	100	0.5	15.0×15.0	14.0×14.0	14×14	PES	Notched corner
IC51-1284-844	128	0.8	(*) 3 types		28×28	PES	Parallel clamp (inquire for detail)
IC51-1284-976	128	0.8	(*) 2 types		28×28	PES	Parallel clamp (inquire for detail)
IC51-1604-845	160	0.65	(*) 4 types		28×28	PES	Parallel clamp (inquire for detail)
IC51-1604-926	160	0.65	30.0×31.4	29.0×29.0	28×28	PES	Parallel clamp

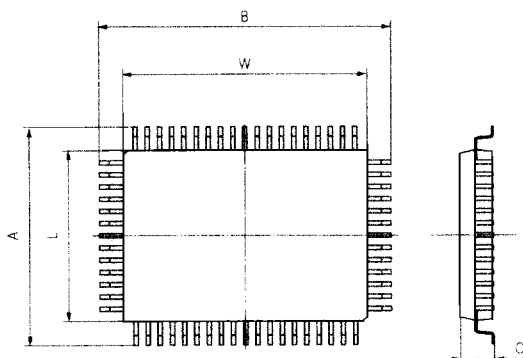
Unit = mm

SQFP

Part No.	No. of Leads	Pitch	Applicable Package (A×B×C)	Housing Material	Remarks
IC51-0324-805	32	0.5	7.0× 7.0×1.4	PES	Parallel clamp, pedestal
IC51-0484-806	48	0.5	9.0× 9.0×1.4	PES	Parallel clamp, pedestal
IC51-0644-807	64	0.5	12.0×12.0×1.4	PES	Parallel clamp, pedestal
IC51-0804-808	80	0.5	14.0×14.0×1.4	PES	Parallel clamp, pedestal
IC51-1004-809	100	0.5	16.0×16.0×1.4	PES	Parallel clamp, pedestal

Unit = mm

QFP/SQFP



IC 51/53 SERIES

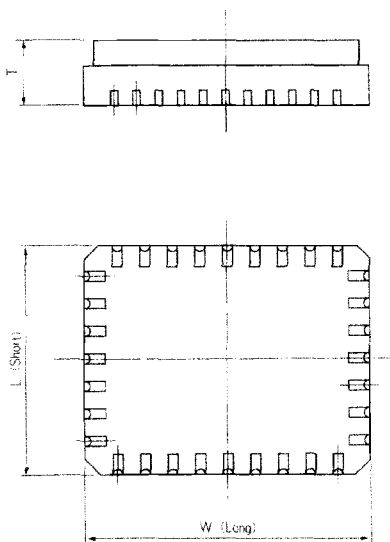
SOP/QFP/QFN(LCC)/QFJ(PLCC)/TCP

QFN (LCC)

Part No.	No. of Leads	Pitch	Applicable Package (W X L X T)	Contact Position	Mounting Material
IC53-0164-082	16	1.27	6.66/6.22×6.66/6.22×2.12/1.52	5.7×5.7	PSF
IC53-0164-083	16	1.27	6.60/6.22×6.60/6.22×2.47/1.87	5.7×5.7	PSF
IC53-0184-066	18	1.27	11.05/10.67×7.49/7.11×2.20/1.60	6.2×9.0	PSF
IC53-0184-072	18	1.27	9.09/8.76×7.44/7.11×1.73/1.37	7.9×7.9	PSF
IC53-0184-084	18	1.27	9.14/8.76×7.49/7.11×2.12/1.52	7.9×6.2	PSF
IC53-0184-085	18	1.27	9.77/9.39×7.49/7.11×2.12/1.52	8.4×6.1	PSF
IC53-0184-086	18	1.27	9.77/9.39×7.49/7.11×2.47/1.87	6.1×8.1	PSF
IC53-0184-087	18	1.27	11.05/10.67×7.49/7.11×2.20/1.60	6.2×9.8	PSF
IC53-0184-088	18	1.27	11.05/10.67×7.49/7.11×2.60/2.00	6.2×9.8	PSF
IC53-0184-101	18	1.27	9.09/8.76×7.44/7.11×2.47/1.87	7.9×6.2	PSF
IC53-0184-102	18	1.27	11.05/10.67×7.49/7.11×2.60/2.00	6.2×9.8	PSF
IC53-0204-073	20	1.27	11.05/10.67×7.49/7.11×2.20/1.70	9.8×6.2	PSF
IC53-0204-089	20	1.27	11.05/10.67×7.49/7.11×2.74/2.14	6.2×9.8	PSF
IC53-0244-090	24	1.27	8.76/8.38×8.76/8.38×2.02/1.62	7.5×7.5	PSF
IC53-0244-091	24	1.27	8.76/8.38×8.76/8.38×1.90/1.50	7.5×7.5	PSF
IC53-0244-092	24	1.27	8.76/8.38×8.76/8.38×2.47/1.87	7.5×7.5	PSF
IC53-0244-093	24	1.27	10.29/10.00×10.29/10.00×2.50/1.90	9.0×9.0	PSF
IC53-0244-117	24	1.27	15.44/15.04×9.02/8.69×1.80/2.45	14.0×7.6	PSF
IC53-0284-071	28	1.27	11.46/11.10×11.46/11.07×2.08/1.70	11.6×11.6	PSF
IC53-0284-095	28	1.27	11.68/11.30×11.68/11.30×2.12/1.52	10.2×10.2	PSF
IC53-0284-096	28	1.27	14.17/13.77×9.09/8.69×2.46/1.86	12.8×7.7	PSF
IC53-0324-065	32	1.27	14.22/13.84×11.68/11.30×3.10/2.50	10.5×13.0	PSF
IC53-0324-069	32	1.27	14.02/13.62×11.48/11.08×2.10/1.70	10.5×11.3	PSF
IC53-0324-087	32	1.27	14.22/13.46×11.68/11.30×2.14/1.54	10.5×13.0	PSF
IC53-0324-098	32	1.27	10.92/10.54×10.92/10.54×3.10/2.50	9.65×9.65	PSF
IC53-0324-099	32	1.27	19.25/18.85×9.09/8.69×2.46/1.86	7.9×18.0	PSF
IC53-0484-100	48	1.016	14.52/14.03×14.52/14.03×2.12/1.52	19.2×13.2	PSF
IC51-0524-294	52	1.27	19.30/19.05×19.30/19.05×3.7/4.6	17.0×17.0	PSF
IC51-0684-498	68	1.27	24.38/23.88×24.38/23.88×1.77/1.27	23.0×23.0	PES

Unit = mm

QFN (LCC)



IC 51/53 SERIES

SOP/QFP/QFN(LCC)/QFJ(PLCC)/TCP

QFN (PLCC)

Part No.	No. of Leads	Pitch	Mounting Dimensions (JEDEC)	Mounting Method	Remarks
IC51-0184-398	18	1.27	JEDEC MO-047	PES	2 at a time
IC51-0204-415	20	1.27	JEDEC MO-047	PES	
IC51-0224-570	22	1.27	JEDEC MO-047	PES	
IC51-0284-399	28	1.27	JEDEC MO-047	PES	
IC51-0324-453	32	1.27	JEDEC MO-047	PES	
IC51-0444-400	44	1.27	JEDEC MO-047	PES	
IC51-0524-411-2	52	1.27	JEDEC MO-047	PES	
IC51-0524-411-3	52	1.27	JEDEC MO-047	PES	
IC51-0684-390-2	68	1.27	JEDEC MO-047	PES	
IC51-0684-390-3	68	1.27	JEDEC MO-047	PES	
IC51-0844-401-2	84	1.27	JEDEC MO-047	PES	
IC51-0844-401-3	84	1.27	JEDEC MO-047	PES	
IC51-1004-405-2	100	1.27	JEDEC MO-047	PES	
IC51-1004-405-3	100	1.27	JEDEC MO-047	PES	
IC51-1244-410-2	124	1.27	JEDEC MO-047	PES	
IC51-1244-410-3	124	1.27	JEDEC MO-047	PES	

Unit = mm

TCP

(1) Film width : 35mm

—a. Socket

Part No.	Pitch	No. of Leads	Remarks
IC51-1964-1190-*	0.5mm	196	3 stopper types
IC51-2444-1191-*	0.4mm	244	3 stopper types
IC51-3244-1333	0.3mm	324	
IC51-3884-1429-1	0.25mm	388	

—b. Carrier

Part No.	TCP Size	Remarks
TAB-35006	SUPER	2-piece, hinge type
TAB-35016	SUPER	2-piece, sandwich type

(2) Film width : 48mm

—a. Socket

Part No.	Pitch	No. of Leads	Remarks
IC51-3244-1331-1	0.4mm	324	
IC51-4364-1334	0.3mm	436	
IC51-5324-1551	0.25mm	532	

—b. Carrier

Part No.	TCP Size	Remarks
TAB-48017	SUPER	2-piece, sandwich type
TAB-48018	WIDE	2-piece, sandwich type

(2) Film width : 70mm

—a. Socket

Part No.	Pitch	No. of Leads	Remarks
IC51-4364-1467-1	0.5mm	436	
IC51-5484-1468-1	0.4mm	548	
IC51-8844-1901	0.25mm	884	

—b. Carrier

Part No.	TCP Size	Remarks
TAB-70019	SUPER	2-piece, sandwich type
TAB-70009	WIDE	1-piece
TAB-70022	WIDE	2-piece, sandwich type

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