

Plastic Dual In-Line (PDIP) Packages:

Amkor is committed to continuing to service this long established standard industry package. The Amkor PDIP comes in a wide range of lead counts: from 8 - 48 leads with a lead pitch of 100 mils. Amkor also provides the SPDIP package which is a shrink version of the PDIP with a 70 mil lead pitch and lead counts ranging from 30 - 64 leads. The SPDIP provides the option of decreasing the package size while maintaining the same lead count. The SPDIP decreases the board space required on the PCB to help meet ever-shrinking space requirements.

PDIP

<p>Features:</p>	<p>Amkor's PDIP packages offer:</p> <ul style="list-style-type: none"> • 300 mil body width - 8, 14, 16, 18, 20, 22, 24 lead counts available • 288 mil body width - 28 lead count available • 400 mil body width - 22 - 30 lead counts available • 600 mil body width - 24, 28, 32, 40, 42, 48, 52 lead counts available • 750 mil body width - 64 lead count available • High conductivity copper leadframe • Fused-lead custom configurations • JEDEC standard compliant • Wide selection of available pad sizes to meet most die size needs • Custom leadframe design capability • Multi-chip packaging capability • Full internal electrical test • Strip Test capability
<p>Reliability:</p>	<p>PDIP and SPDIP are tested to assure reliable, long term operation of your die.</p> <ul style="list-style-type: none"> • PCT 121 °C, 2 atm, 168 hours • Temp cycle -65/+150 °C, 1000 cycles • Temp/humidity 85 °C/85% RH, 1000 hours • High temp storage 150 °C, 1000 hours

Applications:

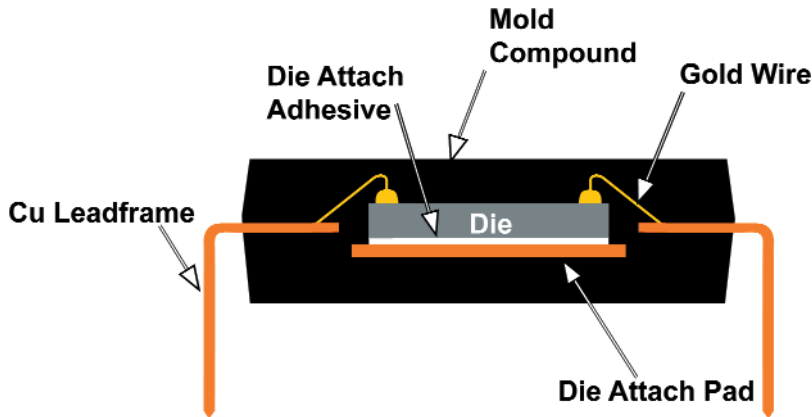
Along with the other standard industry packages, the PDIP has a proven track record and is still being used by semiconductor technologies such as logic, memory, microcontrollers, and video controllers. Some end applications are consumer electronics, commercial electronics, automotive and telecommunications.

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PDIP

Cross-section PDIP



Process Highlights

Die thickness (max)	25 mils
Strip solder plating	85/15 Sn/Pb or 100% Sn
Marking	Pad & Laser
Lead inspection	Optical
Pack/ship options	Bar code

Test Services

- Program generation/Conversion
- Product engineering
- Wafer sort
- Ambient to +165 °C test available
- Burn-in

Shipping

Clear anti-static tube 20 inch

Configuration Options:

PDIP Nominal Package Dimensions

	Lead Count	Body Thkns (mils)	Body Length (mils)	Lead Pitch (mils)	Lead Form/Standoff (mils)	Amkor Dwg No.	JEDEC Dwg No.	Units Per Tube
SPDIP								
300 mil (7.5 mm)	22	130	1030	100	15	00294	MS-001	18
400 mil (10.16 mm)	30	150	1095	70	20	31286	MO-026	20
600 mil (16.00 mm)	42	150	1450	70	20	31289	MO-020	13
	52	150	1810	70	20	31291	MO-020	11
	56	150	2060	70	20	31291	MO-020	11
750 mil (18.9 mm)	64	150	2273	70	20	31292	MO-021	9
PDIP								
300 MIL (7.5 mm)	8 1/2	130	365	100	15	00290	MS-001	50
	14 full	130	750	100	15	00291	MS-001	25
	16 1/2	130	750	100	15	30170	MS-001	25
	18 full	130	900	100	15	00292	MS-001	20
	20 full	130	1030	100	15	00293	MS-001	18
	24 full	130	1250	100	15	30124	N/A	15
288/300 mil	28 - 3/4	130	1365	100	20	30791	MO-095	14
400 mil (10.16 mm)	22 full	150	1095	100	15	30125	MO-010	20
600 mil (15.00 mm)	24 full	150	1250	100	15	00289	MS-011	16
	28 full	150	1450	100	15	00286	MS-011	13
	32 full	150	1650	100	15	00255	MS-011	11
	40 full	150	2060	100	15	00284	MS-011	9
	48 full	160	2430	100	15	30123	MS-011	7

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