

DFN/QFN Package LineUP

About DFN/QFN Package

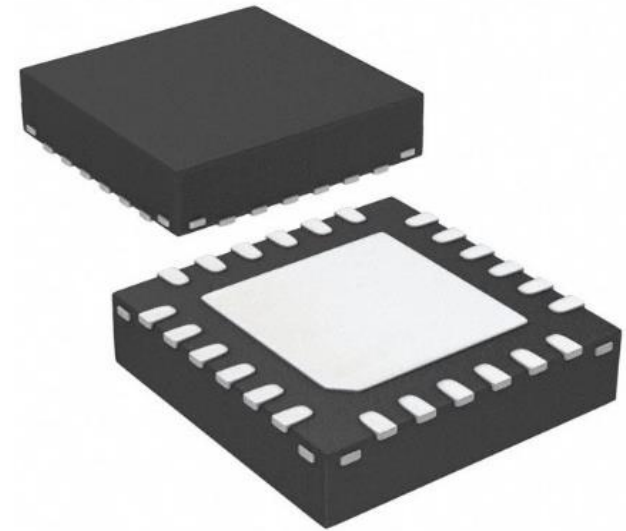
DFN/QFN Package

In response to the market needs for smaller, lighter and thinner packages, there has been a shift from conventional leaded packages to non-leaded packages such as DFN/QFN.

We design and propose the optimum package according to the customer's requirements from two types of specifications, Cu frame type and electroformed lead type

Feature ~Cu Frame Type~

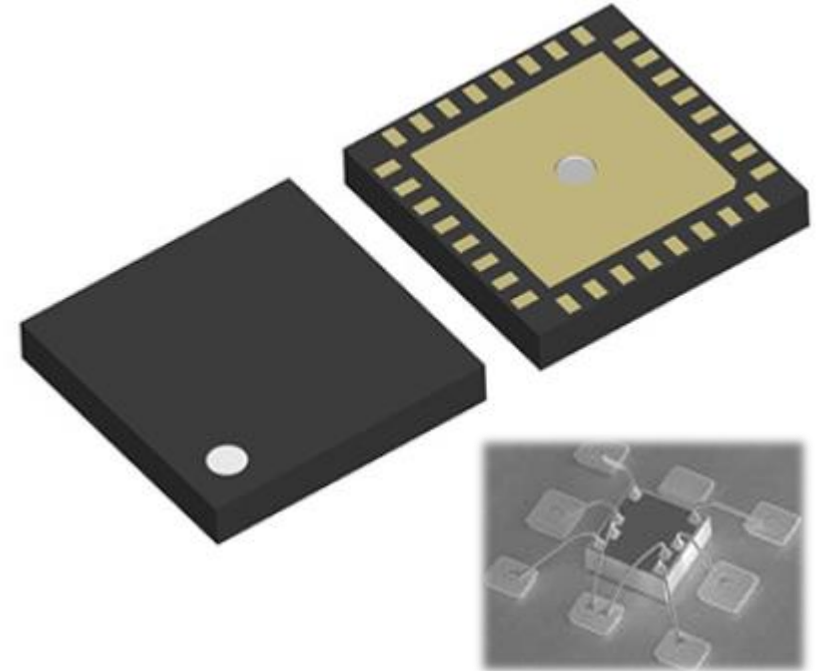
- A wide range of package thicknesses (Body Thickness) can be offered.
- High reliability (MSL1 clear & Delaminationless).
- Lineup of conductive, non-conductive, highly conductive, and highly thermally conductive die attach materials.
- Lineup of Au, Ag, and Cu wire materials.
- A wide variety of chips can be mounted Multi-Chip, COL (Chip On Lead), Tabless, FlipChip.
- Wettable Flank.



About DFN/QFN Package

Feature ~Electroforming Lead Type~

- Floating island terminal structure using electroforming is possible (structure with no exposed terminals from the side of PKG)
- High reliability (MSL1 clear & Delaminationless).
- Lineup of conductive, non-conductive, highly conductive, and highly thermally conductive die attach materials.
- Lineup of Au, Ag, and Cu wire materials.
- A wide variety of chips can be mounted Multi-Chip, COL (Chip On Lead), Tabless, FlipChip.
- Wettable Flank.

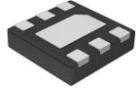


Cu Frame Type







*The publication is an example.
Various package thicknesses are available, so please feel free to contact us.

DFN/QFN Package LineUP ~Cu Frame Type~







DFN Type



(Unit : mm)

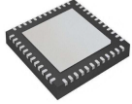
PKG Name	Lead Count	Body Width	Body Length	Body Thickness (Max)*	Lead Pitch	Stand-off	Lead Material	PKG Dimensions
DFN0808	4	0.80	0.80	0.40	0.48	0.00	Cu	
DFN1010	4	1.00	1.00	0.60	0.65	0.00	Cu	
	6	1.00	1.00	0.45	0.35	0.00	Cu	
DFN1212	4	1.20	1.20	0.80	0.50	0.00	Cu	
	6	1.20	1.20	0.40	0.40	0.00	Cu	
DFN1418	6	1.40	1.80	0.40	0.50	0.00	Cu	

DFN/QFN Package LineUP ~Cu Frame Type~






PKG Name	Lead Count	Body Width	Body Length	Body Thickness (Max) *	Lead Pitch	Stand-off	Lead Material	PKG Dimensions
DFN1515	6	1.50	1.50	0.45	0.50	0.00	Cu	
	8	1.50	1.50	0.40	0.48	0.00	Cu	
DFN1616	6	1.60	1.60	0.40	0.50	0.00	Cu	
	8	1.60	1.60	0.45	0.35	0.00	Cu	
DFN2020	8	2.00	2.00	0.80	0.50	0.00	Cu	
DFN3030	8	3.00	3.00	0.40	0.40	0.00	Cu	

DFN/QFN Package LineUP ~Cu Frame Type~








QFN Type



(Unit : mm)

PKG Name	Lead Count	Body Width	Body Length	Body Thickness (Max) *	Lead Pitch	Stand-off	Lead Material	PKG Dimensions
QFN2020	12	2.00	2.00	0.45	0.50	0.00	Cu	
QFN3030	12	3.00	3.00	0.80	0.50	0.00	Cu	
	16	3.00	3.00	0.50	0.50	0.00	Cu	
QFN4040	24	4.00	4.00	0.80	0.50	0.00	Cu	
	28	4.00	4.00	0.60	0.50	0.00	Cu	

DFN/QFN Package LineUP ~Cu Frame Type~

PKG Name	Lead Count	Body Width	Body Length	Body Thickness (Max) *	Lead Pitch	Stand-off	Lead Material	PKG Dimensions
QFN5050	28	5.00	5.00	0.60	0.50	0.00	Cu	
	32	5.00	5.00	0.80	0.50	0.00	Cu	
QFN6060	36	6.00	6.00	0.80	0.50	0.00	Cu	
QFN7070	48	7.00	7.00	0.80	0.50	0.00	Cu	
QFN8080	56	8.00	8.00	0.80	0.50	0.00	Cu	
	64	8.00	8.00	0.80	0.40	0.00	Cu	
	72	8.00	8.00	0.80	0.40	0.00	Cu	

Electroforming Lead Type





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DFN/QFN Package LineUP ~ Electroforming Lead Type ~

DFN Type

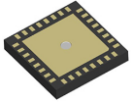


(Unit : mm)



PKG Name	Lead Count	Body Width	Body Length	Body Thickness (Max) *	Lead Pitch	Stand-off	Lead Material	PKG Dimensions
DFN0808	4	0.80	0.80	0.40	0.48	0.00	Ni	
DFN1010	4	1.00	1.00	0.60	0.65	0.00	Ni	
DFN2020	8	2.00	2.00	0.60	0.50	0.00	Ni	
DFN3030	8	3.00	3.00	0.60	0.50	0.00	Ni	

DFN/QFN Package LineUP ~ Electroforming Lead Type ~

QFN Type



(Unit : mm)

PKG Name	Lead Count	Body Width	Body Length	Body Thickness (Max) *	Lead Pitch	Stand-off	Lead Material	PKG Dimensions
QFN3030	16	3.00	3.00	0.60	0.50	0.00	Ni	
	24	3.00	3.00	0.60	0.40	0.00	Ni	
QFN4040	32	4.00	4.00	0.60	0.40	0.00	Ni	