

SPEL Semiconductor Limited Packages Portfolio

Glossary:

UDFN	Ultra-Thin Dual (0.50 mm)
QFN	Quad (0.90 mm)
DFN	Dual (0.90 mm)
TQFN	Thin Quad (0.75 mm)
TDFN	Thin Dual (0.75 mm)

A. Leadless Packages (QFN / DFN):

S.No	Package	Pkg Size (mm)	DAP Size (mm)	Lead Pitch (mm)	Lead Finish	
					100% Tin	Ni-Pd-Au
1	2 TDFN	3.40x2.20	1.60x1.60	NA	✓	
2	6 UDFN	2.50x2.50	1.60x2.30	0.65		✓
3	8 UDFN	1.35x1.70	0.61x1.40	0.40	✓	
4		1.35x1.70	0.55x1.40	0.40	✓	
5	8 TDFN	1.35x1.70	0.55x1.40	0.40	✓	
6		1.40x1.60	0.30x1.10	0.40	✓	
7		4.50x3.50	3.40x2.54	0.50		✓
8	10 UDFN	1.00x2.50	0.70x0.55	0.50	✓	
9		1.00x2.50	0.55x0.70	0.50		✓
10		1.00x2.70	0.70x0.60	0.50	✓	
11	12 UDFN	1.20x2.50	0.50x2.20	0.40	✓	
12		1.35x2.50	0.65x2.20	0.40	✓	
13	12 TDFN	1.35x2.50	0.55x2.20	0.40	✓	
14		3.00x1.35	0.55x2.70	0.50	✓	
15		3.00x4.00	1.90x3.50	0.50	✓	
16	12 TQFN	2.00x2.00	1.10x1.10	0.40	✓	
17	12 DFN	1.35x3.00	0.55x2.70	0.50	✓	
18	13 DFN	5.50x4.60	3.70x3.70	0.50	✓	

19	14 TDFN	2.00x3.00	1.00x2.70	0.40	✓	
20	16 UDFN	1.35x3.30	0.65x3.00	0.40	✓	
21	16 TDFN	1.70x4.00	0.80x3.70	0.50	✓	
22		3.30x1.35	0.55x3.00	0.40	✓	
23		3.50x3.40	2.50x3.10	0.40	✓	
24		4.00x1.60	0.70x3.70	0.50	✓	
25		4.00x6.00	2.20x5.50	0.75	✓	
26	16 TQFN	3.00x3.00	1.90x1.90	0.50	✓	
27		3.00x3.00	2.10x2.10	0.50	✓	✓
28	16 QFN	4.00x4.00	2.80x2.80	0.65		✓
29		4.00x4.00	2.40x2.40	0.65	✓	
30	20 QFN	4.00x4.00	3.00x3.00	0.50	✓	
31		5.00x5.00	3.80x3.80	0.65	✓	✓
32		5.00x5.00	3.90x3.90	0.65	✓	
33	22 QFN	3.7x4.7	3.70x3.70	0.65		✓
34	23 TQFN	7.00x7.00	4.94x3.94	0.50	✓	
35	24 TQFN	3.80x3.80	3.80x3.80	0.65		✓
36	24 TQFN	4.00x4.00	2.80x2.80	0.50		✓
37		4.00x4.00	3.20x2.70	0.50		✓
38		6.00x6.00	4.20x4.20	0.80		✓
39		6.00x6.00	4.80x4.80	0.80		✓
40	24 QFN	4.00x4.00	2.80x2.30	0.50	✓	
41	28 TQFN	4.00x4.00	2.80x2.80	0.50	✓	
42	28 QFN	4.00x4.00	2.60x2.60	0.45	✓	
43		4.00x5.00	3.00x4.00	0.50		
44		5.00x5.00	3.60x3.60	0.50	✓	✓
45		6.00x6.00	4.80x4.80	0.65	✓	
46	32 TQFN	5.00x5.00	3.50x3.50	0.50		✓

47	32 TQFN	5.00x5.00	4.00x4.00	0.50	✓	
48		5.00x5.00	3.90x3.90	0.50	✓	
49	38 QFN	5.00x7.00	3.40x5.40	0.50		✓
50	40 QFN	5.00x5.00	3.70x3.70	0.40	✓	
51		6.00x6.00	3.75x3.75	0.50	✓	
52		6.00x6.00	4.80x4.80	0.50	✓	
53	44 TQFN	7.00x7.00	5.80x5.80	0.50	✓	
54	48 QFN	6.00x6.00	4.80x4.80	0.40	✓	
55	48 TQFN	7.00x7.00	3.80x3.80	0.50	✓	
56	56 TQFN	8.00x8.00	4.60x5.30	0.50		✓
57	64 TQFN	7.50x7.50	4.00x4.00	0.40	✓	
58		9.00x9.00	7.00x7.00	0.50	✓	
59		9.00x9.00	7.60x7.60	0.50	✓	
60	64 QFN	9.00x9.00	3.75x3.75	0.50	✓	
61		9.00x9.00	5.80x5.80	0.50	✓	
62	68 QFN	10.00x10.00	8.30x8.30	0.50		✓
63	68 TQFN	8.00x8.00	5.50x5.50	0.40	✓	
64		11.00x11.00	8.60x8.60	0.50	✓	
65		8.00x8.00	6.80x6.80	0.40	✓	
66	72 QFN	8.90 x8.90	8.90x8.90	0.50	✓	✓
67	72 QFN	10.00x10.00	6.20x6.20	0.50	✓	
68	80 TQFN	12.00x12.00	9.70x9.70	0.50	✓	
69	2 UDFN	1.6X1.25	1.1X0.8	0.50	✓	

B. Leaded Packages:

S.No	Package	Pkg Size (mm)	DAP Size(mm)	Lead Pitch (mm)	Lead Finish	
					100% Tin	Ni-Pd-Au
1	8 SOIC	150	95x130	50	✓	
2	16 SOIC	300	160X200	50	✓	✓
3		150	90x150	50	✓	✓
4		150	90x110	50	✓	
5		300	126x157	50	✓	
6	20 SOIC	300	165x204	50	✓	
7	8 TSSOP	173	87x118	25	✓	
8		173	87x126	25	✓	
9	20 TSSOP	173	90x110	25	✓	
10		173	118x165	25	✓	✓
11	24 TSSOP	173	118x165	25	✓	
12		173	118x217	25		✓
13	38 TSSOP	173	118x198	25		✓
14	40 VSOP	150	96x130/2	20	✓	
15		150	65x160/1	20	✓	
16	48 VSOP	150	96x180/1	16	✓	
17		150	96x130/2	16	✓	
18	20 QSOP	150	96x140	25	✓	
19		150	110x160	25	✓	
20	24 QSOP	150	96x140	25	✓	
21		150	110x160	25	✓	
22	28 QSOP	150	96x200	25		✓
23	8 PDIP	300	110x140	100	✓	✓
24	14 PDIP	300	110x140	100	✓	
25	16 PDIP	300	165x320	100		✓
26	8 SIP	225	95x95	100		✓
27	14 SO	150	90x150	50		✓
28	16 SO	150	90X150	50		✓
29	38 TSSOP	173	118X198	19		✓
30	80 Mpaq	150	96x130/4	16	✓	

Glossary:

COL	Chip On Lead
WF	Wettable Flank
SW	Sandwich Package

C. QFN/DFN (Special/Customized Packages) Package List:

Synod	Package	Pkg Size (mm)	DAP Size (mm)	Lead Pitch (mm)	Lead Finish	
					100% Tin	Ni-Pd-Au
1	10 TDFN	1.40x2.00	COL	0.4		✓
2	21 TQFN	7.00x7.00	4.94x4.80	0.52	✓	
3	23 TQFN	8.00x8.00	Multi Pad	0.5	✓	
4	32 TQFN (WF)	5.00x5.00	3.9x03.90	0.5	✓	
5	52 QFN (WF)	8.00x8.00	6.4x6.4	0.5	✓	
6	64 QFN	9.00x9.00	Multi Pad	0.4		✓
7	12TDFN(SW)	2.00x6.00	1.4x5.1	0.5	✓	✓

D. Leadless (Special/Customized Packages) Package List:

S.No	Package	Pkg Size (Mils)	DAP Size (Mils)	Lead Pitch (Mils)	Special Characteristic (Size in Mils)
1	7 SOIC	150	95x130	50	Customized Lead
2	8 SOIC	150	95x130	50	Exposed Pad
3	8 SOIC	150	Multi Pad	50	60x35 (8X)
4	16 SOIC	150	Multi Pad	50	89x89 (Dual)
5		150	Multi Pad	50	70x224 (Dual)