

Table 1. Maxim Surface Mount Devices Moisture Sensitivity Classification

PACKAGE	PIN COUNT	Sn/Pb PARTS		Pb-Free PARTS	
		MSL	DRYPACK YES/NO	MSL	DRYPACK YES/NO
SOIC narrow	8,14,16,28	Level 1	No	Level 1	No
SOIC wide	16,18,20,24,28	Level 1	No	Level 1	No
SSOP 0.65 mm	14,16,20,24,28	Level 1	No	Level 1	No
SSOP 0.80 mm	36	Level 1	No	Level 1	No
SSOP 0.80 mm	44	Level 1	No	N.Q.	N.Q.
TSSOP 4.4 mm body	8,14,16,20,24,28	Level 1	No	Level 1	No
TSSOP 4.4 mm body	38	Level 1	No	Level 3	Yes
TSSOP 6.1 mm body	48	Level 3	yes	Level 3	Yes
QSOP	16,20,24,28	Level 1	No	Level 1	No
uMAX	8,10	Level 1	No	Level 1	No
uMAX-EP	8	Level 1	No	Level 1	No
SC70	3,4,5,6	Level 1	No	Level 1	No
SOT	3,4,5,6,8	Level 1	No	Level 1	No
uDFN 1.5x1.0 mm	6			Level 1	No
uDFN 2.0x2.0 mm	6,8,10			Level 1	No
uDFN 3.0x3.0 mm	6			Level 1	No
TQFP 5x5 mm	32	Level 1	No	Level 1	No
TQFP 7x7 mm	32,48	Level 1	No	Level 1	No
TQFP 10x10 mm	52,64	Level 3	Yes	Level 3	Yes
TQFP 12x12 mm	80	Level 3	Yes	Level 3	Yes
TQFP 14x14 mm	100	Level 3	Yes	Level 3	Yes
TQFP 14x20 mm	128	Level 3	Yes	Level 3	Yes
TQFP 20x20 mm	144	Level 3	Yes	Level 3	Yes
TQFP-EP 5x5 mm	32	Level 1	No	Level 1	No
TQFP-EP 7x7 mm	32,48	Level 3	Yes	Level 3	Yes
TQFP-EP 10x10 mm	64	Level 3	Yes	Level 3	Yes
TQFP-EP 12x12 mm	80	Level 3	Yes	Level 3	Yes
TQFP-EP 14x14 mm	100	Level 3	Yes	Level 3	Yes
PQFP	44	Level 1	No	N.Q.	N.Q.
MQFP	44	Level 1	No	Level 3	Yes
MQFP	100	Level 1	No	N.Q.	N.Q.
PLCC	20,28	Level 1	No	Level 1	No
PLCC	44,68	Level 2	Yes	Level 3	Yes
TEQ	44,68	Level 1	No	N.Q.	N.Q.
BGA	80,192	Level 3	Yes	N.Q.	N.Q.
Thin LGA 6x6x0.8 & 5x5x0.8 mm Dual Row	84, 64			Level 3	Yes
LGA 7x7x1.4 mm	48	Level 3	Yes	N.Q.	N.Q.
TQFN 2x2x0.8 mm	6,8,10			Level 1	No
TQFN 3x3x0.8 mm	6,8,10,12,16	Level 1	No	Level 1	No
TQFN 4x4x0.8 mm	12,16,20,24	Level 1	No	Level 1	No
TQFN 5x5x0.8 mm	16,20,28,32	Level 1	No	Level 1	No
TQFN 6x6x0.8 mm	36,40	Level 1	No	Level 1	No
TQFN 7x7x0.8 mm	32,44,48	Level 1	No	Level 1	No
TQFN 8x8x0.8 mm	56	Level 3	Yes	Level 3	Yes
TQFN 10x10x0.8 mm	68	Level 3	Yes	Level 3	Yes
Above QFNs in 0.5 mm pitch					
TQFN 5x5x0.8 mm	40	Level 1	No	Level 1	No
TQFN 6x6x0.8 mm	48	Level 1	No	Level 1	No
TQFN 7x7x0.8 mm	56	Level 1	No	Level 1	No
Above QFNs in 0.4 mm pitch					
QFN 3x3x0.9 mm	6,8,10,12,16	Level 1	No	Level 1	No
QFN 4x4x0.9 mm	12,16,20,24	Level 1	No	N.Q.	N.Q.
QFN 5x5x0.9 mm	16,20,28,32	Level 1	No	N.Q.	N.Q.
QFN 6x6x0.9 mm	36,40	Level 1	No	N.Q.	N.Q.
QFN 7x7x0.9 mm	32,44,48	Level 3	Yes	Level 3	Yes
QFN 10x10x0.9 mm	68	Level 3	Yes	Level 3	Yes
Above QFNs 0.5 mm pitch					
UCSP	Up to 6x6 matrix	Level 1	No	Level 1	No
CSBGA	169L, 11x11 mm			Level 3	Yes

Note: N.Q. – Not Qualified.