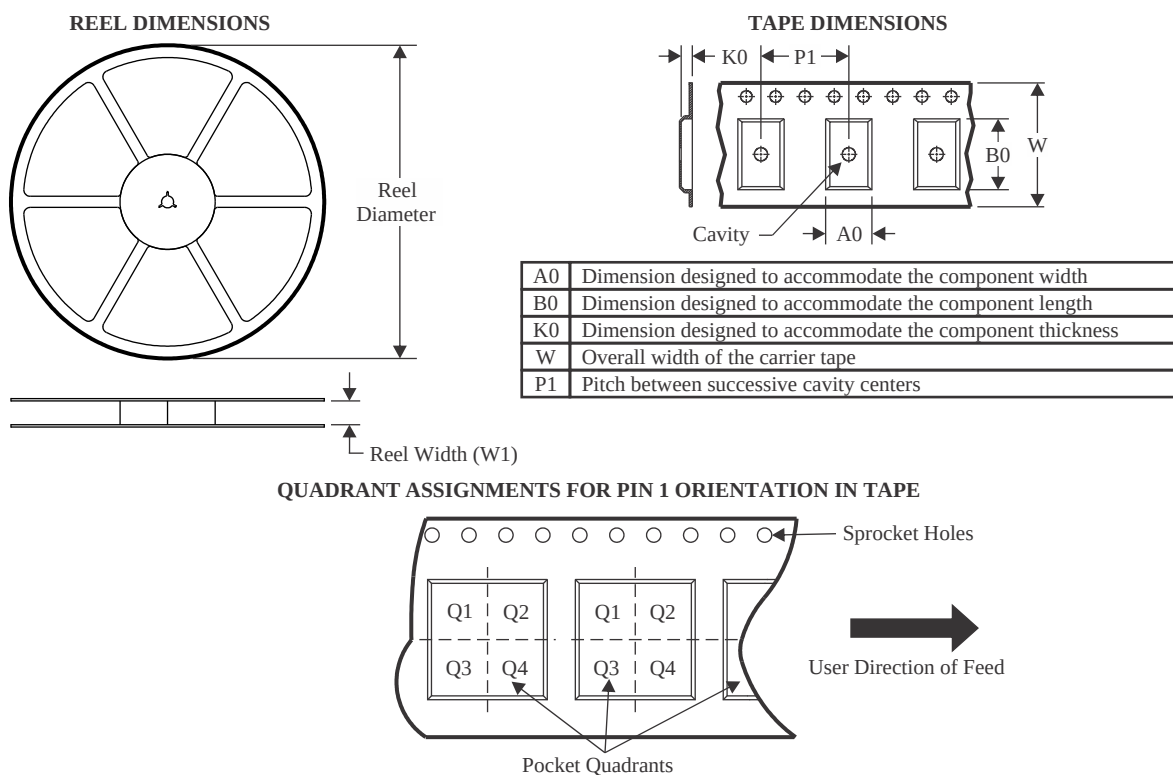


TAPE AND REEL INFORMATION

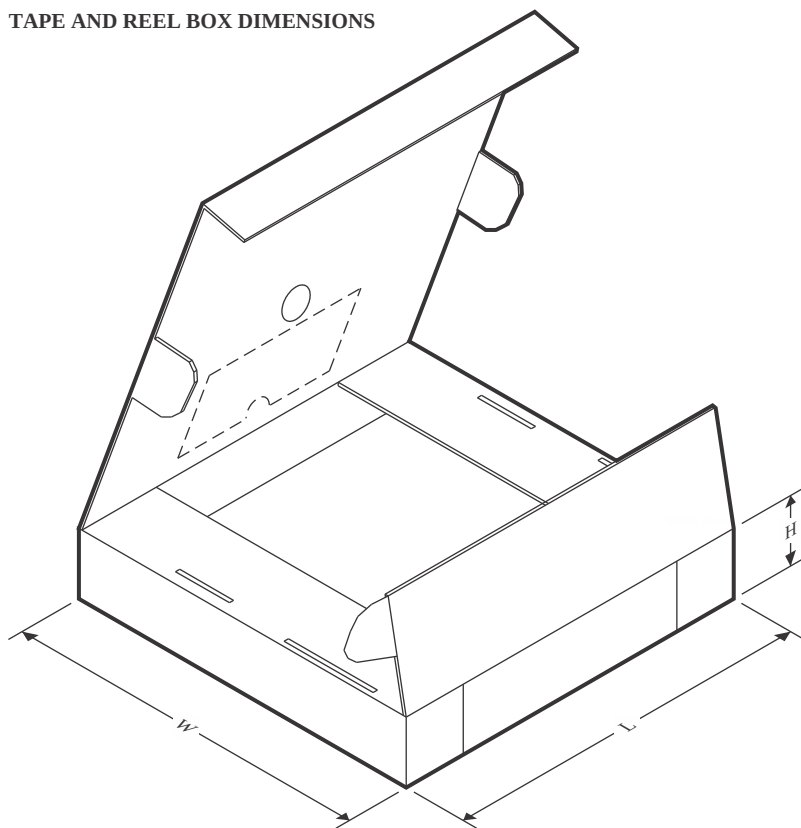


*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
MSPM0G1518S42YCJR	DSBGA	YCJ	42	12000	330.0	12.4	2.55	3.01	0.45	4.0	12.0	Q1
MSPM0G1518SPMR	LQFP	PM	64	1000	330.0	24.4	12.5	12.5	2.2	16.0	24.0	Q2
MSPM0G1518SPNR	LQFP	PN	80	1000	330.0	24.4	16.0	16.0	2.0	24.0	24.0	Q2
MSPM0G1518SPTR	LQFP	PT	48	1000	330.0	16.4	9.6	9.6	1.9	12.0	16.0	Q2
MSPM0G1518SPZR	LQFP	PZ	100	1000	330.0	32.4	16.9	16.9	2.1	24.0	32.0	Q2
MSPM0G1518SRGZR	VQFN	RGZ	48	4000	330.0	16.4	7.3	7.3	1.1	12.0	16.0	Q2
MSPM0G1518SRHBR	VQFN	RHB	32	3000	330.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSPM0G1518SZAWR	NFBGA	ZAW	100	1000	330.0	16.4	9.3	9.3	1.5	12.0	16.0	Q1
MSPM0G1519S42YCJR	DSBGA	YCJ	42	12000	330.0	12.4	2.55	3.01	0.45	4.0	12.0	Q1
MSPM0G1519SPMR	LQFP	PM	64	1000	330.0	24.4	12.5	12.5	2.2	16.0	24.0	Q2
MSPM0G1519SPNR	LQFP	PN	80	1000	330.0	24.4	16.0	16.0	2.0	24.0	24.0	Q2
MSPM0G1519SPTR	LQFP	PT	48	1000	330.0	16.4	9.6	9.6	1.9	12.0	16.0	Q2
MSPM0G1519SPZR	LQFP	PZ	100	1000	330.0	32.4	16.9	16.9	2.1	24.0	32.0	Q2
MSPM0G1519SRGZR	VQFN	RGZ	48	4000	330.0	16.4	7.3	7.3	1.1	12.0	16.0	Q2
MSPM0G1519SRHBR	VQFN	RHB	32	3000	330.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSPM0G1519SZAWR	NFBGA	ZAW	100	1000	330.0	16.4	9.3	9.3	1.5	12.0	16.0	Q1

Device	Package Type	Package Drawing	Pins	SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
MSPM0G3518S42YCJR	DSBGA	YCJ	42	12000	330.0	12.4	2.55	3.01	0.45	4.0	12.0	Q1
MSPM0G3518SPMR	LQFP	PM	64	1000	330.0	24.4	12.5	12.5	2.2	16.0	24.0	Q2
MSPM0G3518SPNR	LQFP	PN	80	1000	330.0	24.4	16.0	16.0	2.0	24.0	24.0	Q2
MSPM0G3518SPTR	LQFP	PT	48	1000	330.0	16.4	9.6	9.6	1.9	12.0	16.0	Q2
MSPM0G3518SPZR	LQFP	PZ	100	1000	330.0	32.4	16.9	16.9	2.1	24.0	32.0	Q2
MSPM0G3518SRGZR	VQFN	RGZ	48	4000	330.0	16.4	7.3	7.3	1.1	12.0	16.0	Q2
MSPM0G3518SRHBR	VQFN	RHB	32	3000	330.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSPM0G3518SZAWR	NFBGA	ZAW	100	1000	330.0	16.4	9.3	9.3	1.5	12.0	16.0	Q1
MSPM0G3519S42YCJR	DSBGA	YCJ	42	12000	330.0	12.4	2.55	3.01	0.45	4.0	12.0	Q1
MSPM0G3519SPMR	LQFP	PM	64	1000	330.0	24.4	12.5	12.5	2.2	16.0	24.0	Q2
MSPM0G3519SPNR	LQFP	PN	80	1000	330.0	24.4	16.0	16.0	2.0	24.0	24.0	Q2
MSPM0G3519SPTR	LQFP	PT	48	1000	330.0	16.4	9.6	9.6	1.9	12.0	16.0	Q2
MSPM0G3519SPZR	LQFP	PZ	100	1000	330.0	32.4	16.9	16.9	2.1	24.0	32.0	Q2
MSPM0G3519SRGZR	VQFN	RGZ	48	4000	330.0	16.4	7.3	7.3	1.1	12.0	16.0	Q2
MSPM0G3519SRHBR	VQFN	RHB	32	5000	330.0	12.4	5.3	5.3	1.1	8.0	12.0	Q2
MSPM0G3519SZAWR	NFBGA	ZAW	100	1000	330.0	16.4	9.3	9.3	1.5	12.0	16.0	Q1

TAPE AND REEL BOX DIMENSIONS

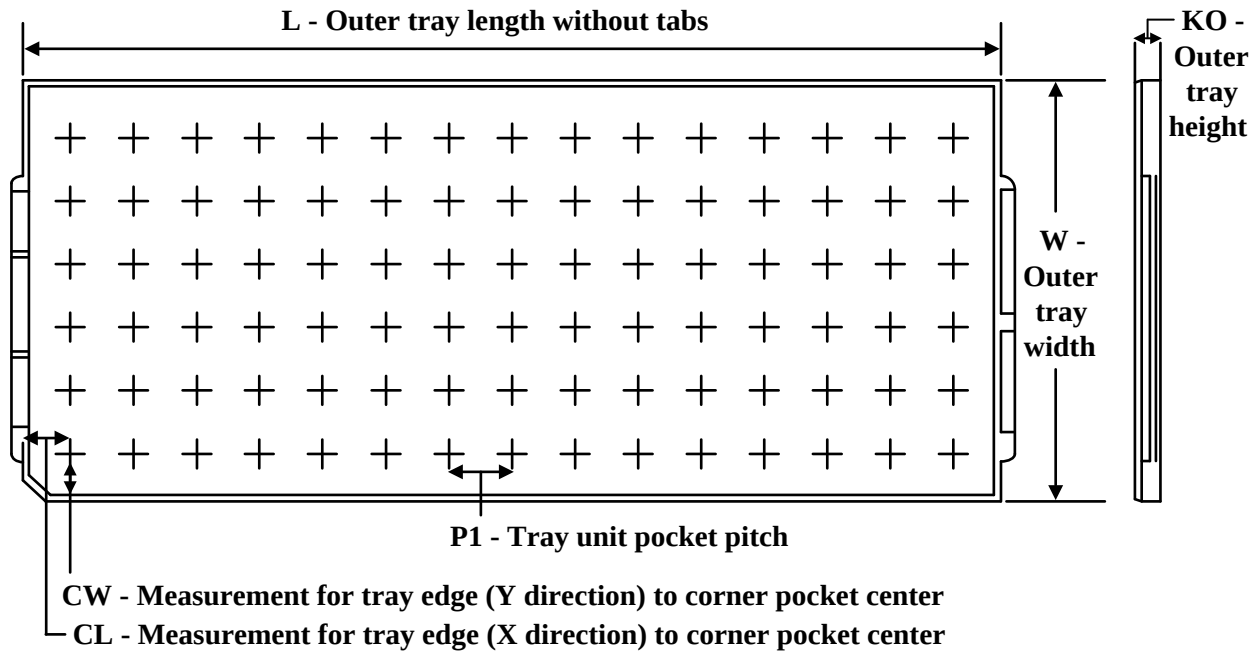


*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
MSPM0G1518S42YCJR	DSBGA	YCJ	42	12000	367.0	367.0	35.0
MSPM0G1518SPMR	LQFP	PM	64	1000	336.6	336.6	41.3
MSPM0G1518SPNR	LQFP	PN	80	1000	367.0	367.0	55.0
MSPM0G1518SPTR	LQFP	PT	48	1000	336.6	336.6	31.8
MSPM0G1518SPZR	LQFP	PZ	100	1000	367.0	367.0	55.0
MSPM0G1518SRGZR	VQFN	RGZ	48	4000	360.0	360.0	36.0
MSPM0G1518SRHBR	VQFN	RHB	32	3000	360.0	360.0	36.0
MSPM0G1518SZAWR	NFBGA	ZAW	100	1000	336.6	336.6	31.8
MSPM0G1519S42YCJR	DSBGA	YCJ	42	12000	367.0	367.0	35.0
MSPM0G1519SPMR	LQFP	PM	64	1000	336.6	336.6	41.3
MSPM0G1519SPNR	LQFP	PN	80	1000	367.0	367.0	55.0
MSPM0G1519SPTR	LQFP	PT	48	1000	336.6	336.6	31.8
MSPM0G1519SPZR	LQFP	PZ	100	1000	367.0	367.0	55.0
MSPM0G1519SRGZR	VQFN	RGZ	48	4000	360.0	360.0	36.0
MSPM0G1519SRHBR	VQFN	RHB	32	3000	360.0	360.0	36.0
MSPM0G1519SZAWR	NFBGA	ZAW	100	1000	336.6	336.6	31.8
MSPM0G3518S42YCJR	DSBGA	YCJ	42	12000	367.0	367.0	35.0
MSPM0G3518SPMR	LQFP	PM	64	1000	336.6	336.6	41.3

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
MSPM0G3518SPNR	LQFP	PN	80	1000	367.0	367.0	55.0
MSPM0G3518SPTR	LQFP	PT	48	1000	336.6	336.6	31.8
MSPM0G3518SPZR	LQFP	PZ	100	1000	367.0	367.0	55.0
MSPM0G3518SRGZR	VQFN	RGZ	48	4000	360.0	360.0	36.0
MSPM0G3518SRHBR	VQFN	RHB	32	3000	360.0	360.0	36.0
MSPM0G3518SZAWR	NFBGA	ZAW	100	1000	336.6	336.6	31.8
MSPM0G3519S42YCJR	DSBGA	YCJ	42	12000	367.0	367.0	35.0
MSPM0G3519SPMR	LQFP	PM	64	1000	336.6	336.6	41.3
MSPM0G3519SPNR	LQFP	PN	80	1000	367.0	367.0	55.0
MSPM0G3519SPTR	LQFP	PT	48	1000	336.6	336.6	31.8
MSPM0G3519SPZR	LQFP	PZ	100	1000	367.0	367.0	55.0
MSPM0G3519SRGZR	VQFN	RGZ	48	4000	360.0	360.0	36.0
MSPM0G3519SRHBR	VQFN	RHB	32	5000	360.0	360.0	36.0
MSPM0G3519SZAWR	NFBGA	ZAW	100	1000	336.6	336.6	31.8

TRAY



Chamfer on Tray corner indicates Pin 1 orientation of packed units.

*All dimensions are nominal

Device	Package Name	Package Type	Pins	SPQ	Unit array matrix	Max temperature (°C)	L (mm)	W (mm)	K0 (μm)	P1 (mm)	CL (mm)	CW (mm)
MSPM0G1518SPM	PM	LQFP	64	160	8 X 20	150	315	135.9	7620	15.2	13.1	13