

Tray and Inner Box Quantities

DRAM

Tray¹

Package Type	Package Size (mm)	Package Weight (g)	Number of Leads (Balls)	MSL	Quantity of parts per Tray	Trays per Box	Quantity of parts per inner box	Boxes per Case	Quantity of units per Case
BGA/FBGA	8x10x1.2	0.15	60	3	264	10	2640	6	15840
	8x10.5x1.2	0.14-0.15	78	3	242	10	2420	6	14520
	8x12.5x1.2	0.15-0.19	84	3	209	10	2090	6	12540
	8x13x1.0	0.19-0.20	96	3	209	10	2090	6	12540
	8x13x1.2	0.19	60	3	240	10	2400	6	14400
	8x8x1.2	0.13	54	3	348	10	3480	6	20880
	9x10.6x1.2	0.18	78	3	220	10	2200	6	13200
	9x13x1.2	0.19	96	3	190	10	1900	6	11400
	9x13.5x1.2	0.22	96	3	180	10	1800	6	10800
	7.5x10.5x1.0	0.14	78	3	210	10	2100	6	12600
	7.5x10.6x1.2	0.15	78	3	242	10	2420	6	14520
	7.5x13x1.0/1.2	0.14-0.17	96	3	198	10	1980	6	11880
	7.5x13.5x1.2	0.19	96	3	209	10	2090	6	12540
	10x11.5x1.0	0.20	134	3	171	10	1710	6	10260
	10x14.5x0.8	0.20-0.27	200	3	136	10	1360	6	8160
	12x12x0.9	0.51	168	3	168	10	1680	6	10080
12x12x1.4	0.37	144	3	189	10	1890	6	11340	
TSOP-II	10x21x1.2	0.51	50	3	117	10	1170	6	7020
	10x22x1.2	0.54-0.56	54/66/86	3	108	10	1080	6	6480

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Packing and Shipping Reference Guide

Tape and Reel²

Package Type	Package Size (mm)	Package Weight (g)	Number of Leads (Balls)	MSL	KO Depth	Pitch	Width	Quantity of parts per Reel	Reels per Box	Quantity of parts per inner box	Boxes per Case	Quantity of units per Case
BGA/ FBGA	8x10x1.2	0.15	60	3	2.1	12	16	2000	1	2000	5	10000
	8x10.5x1.2	0.14-0.15	78	3	1.5	12	24	2500	1	2500	5	12500
	8x12.5x1.2	0.15-0.19	84	3	1.55	12	24	2500	1	2500	5	12500
	8x13x1.0	0.19-0.20	96	3	1.6	12	24	2500	1	2500	5	12500
	8x13x1.2	0.19	60	3	1.5/1.6	12	24	2500	1	2500	5	12500
	8x8x1.2	0.13	54	3	1.4	12	16	2500	1	2500	5	12500
	9x10.6x1.2	0.18	78	3	1.5	12	24	2500	1	2500	5	12500
	9x13x1.2	0.19	96	3	1.5/1.8	16	24	2000	1	2000	5	10000
	9x13.5x1.2	0.22	96	3	1.5	16	24	2000	1	2000	5	10000
	7.5x10.6x1.2	0.15	78	3	1.5	16	24	2500	1	2500	5	12500
	7.5x13x1.0/1.2	0.14-0.22	96	3	1.5/1.8	16	24	1500	1	1500	5	7500
	7.5x13.5x1.2	0.19	96	3	1.5	12	24	2500	1	2500	5	12500
	10x14.5x0.8	0.20-0.27	200	3	1.8	16	24	2000	1	2000	5	10000
	12x12x0.9	0.51	168	3	1.4	16	24	1500	1	1500	5	7500
12x12x1.4	0.37	144	3	1.8	16	24	1500	1	1500	5	7500	
TSOP-II	10x21x1.2	0.51	50	3	2.1	16	32	1000	1	1000	5	5000
	10x22x1.2	0.55	54/66/ 86	3	1.7	16	44	1000	1	1000	5	5000

Notes:

1. To specify the Tray package type, add the suffix "Y" to the end of the part number, e.g. NDB26PFC-4DITY.
2. To specify the Tape and Reel package type, add the suffix "TR" to the end of the part number, e.g. NDB26PFC-4DITTR.

eMMC

Package Type	Package Size (mm)	Package Weight (g)	Number of Balls	MSL	Quantity of parts per Bag	Bags per Carton	Quantity of parts per Carton	Cartons per Case	Quantity of units per Case
BGA100	14x18x1.4	0.54	100	3	98	10	980	6	5880
FBGA153	11.5x13x1.0	0.37	153	3	152	10	1520	6	9120

Packaging specs and orientation:

- Each tray size: 32x13.5x0.7 (cm)
- Inner box size: 43.5x17x8.5 (cm)
- Outer box: depends on the order quantity
- The orientation of eMMC (both 153 ball and 100 ball) in the tray as below:



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