





5.3.2 Shelf Life The minimum calculated shelf life is 12 months from bag seal date or indicated on barcode. If the actual shelf life has exceeded 12 months from the bag seal date and the humidity indicator card (HIC) (see 5.5.1) indicates that baking is not required; then





Table 5-1 Moisture Classification Level (MSL) and Floor Life per J-STD-020

MSL	Floor Life (out of bag)
MSL 1	Unlimited
2	1 year
2a	4 weeks
3	168 hours
4	72 hours
5	48 hours
5a	24 hours
6	Mandatory bake before use. After bake, must be reflowed within the time limit specified on the label.

Table 4-1 Reference Conditions for Drying Mounted or Unmounted SMD Packages

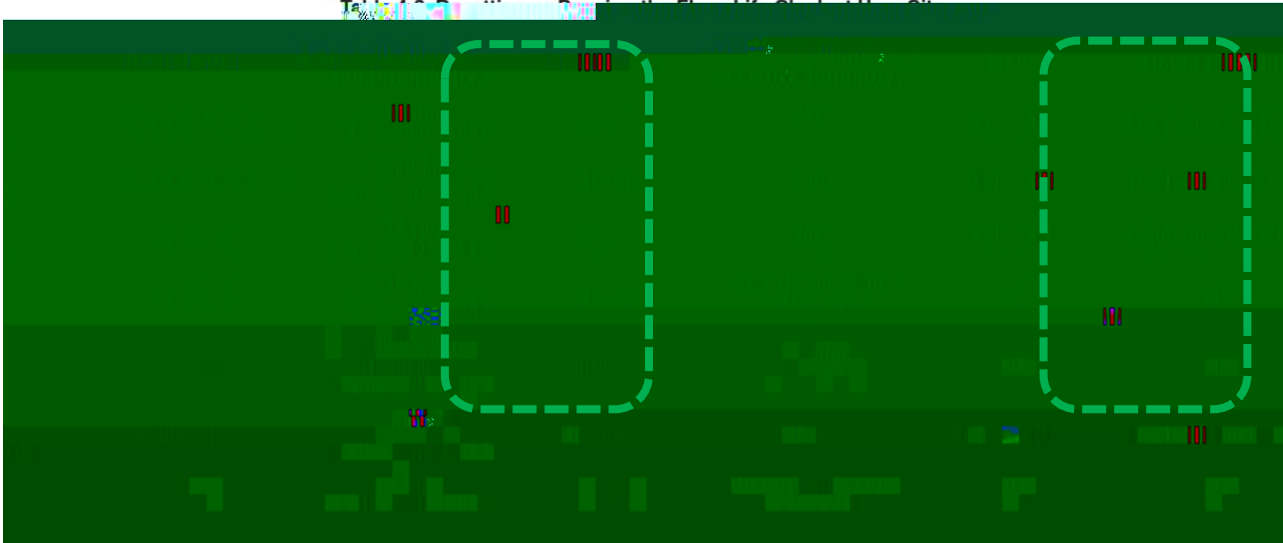


Table 4-1 Reference Conditions for Drying Mounted or Unmounted SMD Packages
(User Bake: Floor life begins counting at time = 0 after bake)

Package Body	Level	Bake @ 125 °C + 10/-0 °C ≤ 5% RH		Bake @ 90 °C + 8/-0 °C ≤ 5% RH		Bake @ 40 °C + 5/-0 °C ≤ 5% RH			
		Exceeding Floor Life by > 72 h	Exceeding Floor Life by < 72 h	Exceeding Floor Life by > 72 h	Exceeding Floor Life by < 72 h	Exceeding Floor Life by > 72 h	Exceeding Floor Life by < 72 h		
Thickness < 0.5 mm	2	Not Required (see Note 4)	Not Required (see Note 4)	Not Required (see Note 4)	Not Required (see Note 4)	Not Required (see Note 4)	Not Required (see Note 4)		
	2a	1 hour	1 hour	2 hours	1 hour	12 hours	8 hours		
	3	1 hour	1 hour	3 hours	1 hour	22 hours	8 hours		
Thickness 0.5 mm 0.8 mm	5	1 hour	1 hour	4 hours	1 hour	23 hours	8 hours		
	5a	1 hour	1 hour	4 hours	1 hour	26 hours	8 hours		
	2	Not Required (see Note 4)	Not Required (see Note 4)	Not Required (see Note 4)	Not Required (see Note 4)	Not Required (see Note 4)	Not Required (see Note 4)		
Thickness > 0.8 mm ≤ 1.4 mm	2s	4 hours	3 hours	15 hours	13 hours	4 days	3 days		
	8	4 hours	8 hours	15 hours	13 hours	4 days	3 days		
	3	3 days	5a	4 hours	3 hours	16 hours	10 hours	4 days	
Thickness ≤ 1.4 mm ≤ 2.0 mm	2	Not Required (see Note 4)	Not Required (see Note 4)	Not Required (see Note 4)	Not Required (see Note 4)	Not Required (see Note 4)	Not Required (see Note 4)		
	2a	7 days	Thickness > 0.8 mm ≤ 1.4 mm (see Note 5)	2a	8 hours	6 hours	25 hours	20 hours	8 days
	3	7 days	4	8 hours	6 hours	25 hours	20 hours	8 days	
Thickness ≤ 4.5 mm (see Note 5)	4	7 days	5	9 hours	6 hours	27 hours	20 hours	10 days	
	5	7 days	5a	10 hours	6 hours	28 hours	20 hours	11 days	
	5a	7 days	5a	11 hours	6 hours	30 hours	20 hours	12 days	
Exception for BGA packages (7 min x 7 min)	2	2 days	3	18 hours	17 minutes	23 hours	20 hours	25 days	
	3	3 days	3	24 hours	17 hours	34 hours	20 hours	4 days	
	4	4 days	4	37 days	25 days	48 hours	20 hours	5 days	
Exception for BGA packages (7 min x 7 min)	5	4 days	5	47 days	28 days	5	45 hours	20 hours	
	6	5 days	6	57 days	38 days	5	45 hours	20 hours	
	7	6 days	7	67 days	48 days	2	48 hours	10 days	
Exception for BGA packages (7 min x 7 min)	2s	13 hours	13 hours	48 hours	10 days	2 days	48 hours	67 days	
	3	16 hours	16 hours	48 hours	10 days	2 days	48 hours	67 days	
	5a	48 hours	48 hours	48 hours	10 days	10 days	79 days	67 days	
Exception for BGA packages (7 min x 7 min)	5a	48 hours	48 hours	48 hours	10 days	10 days	79 days	67 days	
	5a	48 hours	48 hours	48 hours	10 days	10 days	79 days	67 days	
	5a	48 hours	48 hours	48 hours	10 days	10 days	79 days	67 days	
Exception for BGA packages (7 min x 7 min)	2	96 hours	As above	96 hours	As above	As above	As above	As above	
	3	96 hours	As above	96 hours	As above	As above	As above	As above	
	5a	96 hours	As above	96 hours	As above	As above	As above	As above	



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