



Device Material Content

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December, 2017

Package: 64 TQFP (1.4mm)
Total Device Weight 0.340 Grams

Package Code:

TN64

Products:

ispPAC-CLK

Assembly: ASEM

Size (mm): 10 x 10 x 1.4

Lead pitch (mm): 0.5

MSL: 3

Reflow max (°C): 260

	% of Total Pkg. Wt.	Weight (g)	% of Total Pkg. Wt.	Weight (g)	Substance	CAS #	% of Subst.	Notes / Assumptions:
Die	2.07%	0.0070			Silicon chip	7440-21-3	100.00%	Die size: 2.8 x 3.0 mm
Mold Compound	75.35%	0.2562	4.52%	0.0154	Epoxy Resin	-	6.00%	Mold Compound: Hitachi CEL9220HF
			3.77%	0.0128	Phenol Resin	-	5.00%	
			0.15%	0.0005	Carbon Black	1333-86-4	0.20%	
			64.20%	0.2183	Silica	60676-86-0	85.20%	
			2.71%	0.0092	Others	-	3.60%	
D/A Epoxy	0.25%	0.0009	0.20%	0.00068	Silver	7440-22-4	80.00%	Die attach epoxy: Henkel (Ablebond) 3230
			0.05%	0.00017	Esters & resins	-	20.00%	
Wire	0.55%	0.0019	0.55%	0.0019	Copper (Cu)	7440-50-8	100.00%	0.8 to 1.0 mil diameter; 1 wire per package lead
Plating	3.02%	0.0103	3.02%	0.0103	Tin (Sn)	7440-31-5	100.00%	Plating is 100% Matte Sn (annealed)
Leadframe	18.76%	0.0638	18.14%	0.0617	Copper (Cu)	7440-50-8	96.70%	C7025
			0.56%	0.0019	Nickel (Ni)	7440-02-0	3.01%	
			0.03%	0.0001	Silicon (Si)	7440-21-3	0.17%	
			0.01%	0.0000	Magnesium (Mg)	7439-95-4	0.03%	
			0.02%	0.0001	Silver (Ag)	7440-22-4	0.09%	

Notes:

The values listed above are nominal values based on studies of representatives of this particular package type, and are believed to be as accurate as possible.

Constituent substances and proportions in epoxy materials are before curing.

The information provided above is representative of the package as of the date listed, and is subject to change at any time.

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