

Chemical content 74AHCT1G14GV-Q100



Type number	Package	Package description	Total product weight
74AHCT1G14GV-Q100	SOT753	S05	10.38174 mg

12NC	Version	Pb-free soldering			Pb soldering			Number of processing cycles	Assembly site	RHF-indicator
		MSL	PPT	MPPT	MSL	PPT	MPPT			
935298661125	3	1	260	30 s	1	240	20 s	3	Bangkok, Thailand; Seremban, Malaysia; Nijmegen, Netherlands	

Subpart	Material group	Substances	CAS number	Mass(mg)	Mass(%) of subpart	Mass(%) of total product
Adhesive	Filler	Silver (Ag)	7440-22-4	0.00750	75.00000	0.07224
	Polymer	Resin system	Proprietary	0.00250	25.00000	0.02408
		subTotal		0.01000	100.00000	0.09632
Die	Doped silicon	Silicon (Si)	7440-21-3	0.06536	100.00000	0.62953
		subTotal		0.06536	100.00000	0.62953
Lead Frame	Copper alloy	Copper (Cu)	7440-50-8	3.19066	94.96000	30.73335
		Iron (Fe)	7439-89-6	0.08568	2.55000	0.82530
		Lead (Pb)	7439-92-1	0.00101	0.03000	0.00971
		Misc. Phosphor compounds (generic)	7723-14-0	0.00504	0.15000	0.04855
		Tin (Sn)	7440-31-5	0.00672	0.20000	0.06473
	Pure metal layer	Silver (Ag)	7440-22-4	0.07090	2.11000	0.68289
	subTotal		3.36000	100.00000	32.36453	
Mould Compound	Filler	Silica fused	60676-86-0	4.60080	71.00000	44.31627
	Pigment	Carbon black	1333-86-4	0.01944	0.30000	0.18725
	Polymer	Epichlorohydrin/o-Cresol/Formaldehyde polymer (generic)	29690-82-2	1.27656	19.70000	12.29620
		Phenolic resin	Proprietary	0.58320	9.00000	5.61756
	subTotal		6.48000	100.00000	62.41728	
Post-Plating	Impurity	Antimony (Sb)	7440-36-0	0.00001	0.00300	0.00013
		Bismuth (Bi)	7440-69-9	0.00000	0.00100	0.00004
		Copper (Cu)	7440-50-8	0.00000	0.00100	0.00004
		Lead (Pb)	7439-92-1	0.00002	0.00500	0.00021
	Tin solder	Tin (Sn)	7440-31-5	0.43996	99.99000	4.23779
	subTotal		0.44000	100.00000	4.23821	
Wire	Gold alloy	Gold (Au)	7440-57-5	0.02612	99.00000	0.25161
		Palladium (Pd)	7440-05-3	0.00026	1.00000	0.00254
		subTotal		0.02639	100.00000	0.25415

Note(s):

1) This is a generic description of the substance used as the actual composition of the substances are either considered proprietary or no official CAS number is available. If a CAS number is given, it is the closest match available.

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