

Type number	Package	Package description	Total product weight
PBRN123ET	SOT23	TO-236AB	7.66225 mg

12NC	Version	Pb-free soldering			Pb soldering			Number of processing cycles	Assembly site	RHF-indicator
		MSL	PPT	MPPT	MSL	PPT	MPPT			
934058992215	13	1	260	30 s	1	235	20 s	3	Seremban, Malaysia; Dongguan, China; D-22529 HAMBURG, Germany	

Subpart	Material group	Substances	CAS number	Mass(mg)	Mass(%) of subpart	Mass(%) of total product
Die	Doped silicon	Silicon (Si)	7440-21-3	0.21000	100.00000	2.74071
		subTotal		0.21000	100.00000	2.74071
Lead Frame	Iron-nickel alloy	Aluminium (Al)	7429-90-5	0.00220	0.09000	0.02878
		Carbon (C)	7440-44-0	0.00098	0.04000	0.01279
		Chromium (Cr)	7440-47-3	0.00539	0.22000	0.07034
		Cobalt (Co)	7440-48-4	0.01054	0.43000	0.13749
		Iron (Fe)	7439-89-6	1.17551	47.98000	15.34158
		Manganese (Mn)	7439-96-5	0.02107	0.86000	0.27498
		Misc. Sulfur compounds (generic)	7704-34-9	0.00049	0.02000	0.00639
		Misc. phosphorus compounds (generic)		0.00049	0.02000	0.00639
		Nickel (Ni)	7440-02-0	0.88543	36.14000	11.55574
	Silicon (Si)	7440-21-3	0.00637	0.26000	0.08313	
	Pure metal layer	Copper (Cu)	7440-50-8	0.27856	11.37000	3.63555
Silver (Ag)		7440-22-4	0.06296	2.57000	0.82176	
subTotal			2.45000	100.00000	31.97492	
Mould Compound	Filler	Silica fused	60676-86-0	3.39380	71.00000	44.29247
	Pigment	Carbon black	1333-86-4	0.01434	0.30000	0.18715
	Polymer	Epichlorohydrin/o-Cresol/Formaldehyde polymer (generic)	29690-82-2	0.94166	19.70000	12.28960
		Phenolic resin	Proprietary	0.43020	9.00000	5.61454
subTotal			4.78000	100.00000	62.38376	
Post-Plating	Impurity	Antimony (Sb)	7440-36-0	0.00002	0.01000	0.00027
		Bismuth (Bi)	7440-69-9	0.00004	0.02000	0.00055
		Iron (Fe)	7439-89-6	0.00002	0.01000	0.00027
		Lead (Pb)	7439-92-1	0.00002	0.01000	0.00027
	Tin solder	Tin (Sn)	7440-31-5	0.20990	99.95000	2.73934
		subTotal			0.21000	100.00000
Wire	Pure metal	Gold (Au)	7440-57-5	0.01225	100.00000	0.15987
		subTotal			0.01225	100.00000

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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