Material Data Sheet

Infineon Technologies Bipolar GmbH & Co. KG



Product family name	**PowerBLOCK 50mm TZ**
Date	**15.10.2012**
Revision	**3**

Construction element	*Material group*	*Materials*	*CAS-Nr.* *if applicable*	*Average mass [%]**	*Sum [%]*	*Traces*	*Comment*
Semiconductor inluding leads, solder and ceramics	other metals	Molybdenum	7439-98-7	3,1%	4,7%		Molybdenum galv. Ruthenium; Molybdenum galv. or PVD Silver; Molybdenum galv. or PVD AM (Gold/ Chromium)
		Chromium	7440-47-3			X	
		Nickel	7440-02-0			X	
		Ruthenium	7440-18-8			X	
	nonferrous metals	Copper	7440-50-8	1,3%			Copper galv. Silver Copper galv. Nickel
	nobel metal	Silver	7440-22-4			X	
	Semi metals	Silicon	7440-21-3	0,2%			silicon chip doped with very small amounts of elements such as boron, arsenic or phosphorus
	Aluminium alloy	Aluminium	7429-90-5			X	
		Silicon	7440-21-3			X	
	Polymers	Silicone rubber	9002-84-0	0,1%			
Package including cover, gel and baseplate	nonferrous metals	Copper	7440-50-8	64,3%	95,3%		Copper galv. Silver Copper galv. Nickel
	Copper alloy	Copper		0,4%			
		Zinc				X	
	Inorganic materials, ceramics	ALN		1,4%			
		Al203		0,1%		X	
	Iron alloy	Iron	7439-89-6	13,9%			
		Zinc				X	Iron galv. Zinc
		Nickel	7440-02-0			X	Iron galv. Nickel
	Polymers	Epoxide		2,9%			
		Polytetraflouretylene	9002-84-0			X	
		Silicon	7440-21-3	0,1%			
		PPS		12,3%			
				Sum in total:	**100%**		

Weight range of product family **	**760 g - 910 g**
Fluctuation margin	+/- 5%

*) related to component weight

**) Weight of particular product, see technical product information

1) Only substances, materials or constituents actually being present in the product are declared. Substances, materials or constituents that are legally listed as banned are not used and are therefore not part of our products.
2) Substances, materials or constituents being present in concentrations < 0.1 % by weight (< 1000 ppm) are indicated as traces.
3) For substances, materials or constituents with possible harmful effects to human life or the environment, we aspire a detailled declaration even for concentrations < 0.1 % by weight.
4) There are no risks for human beings and to the environment if products are used properly as designated. This shall not apply to risks caused during procedures for disposal etc..
5) All statements herein are based on our present knowledge. Further information is available from our sales representatives.

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