



## Material Content Data Sheet



<b>Sales Product Name</b>				IPP50R520CP		<b>Issued</b>		4. November 2019	
<b>MA#</b>				MA005403134					
<b>Package</b>				PG-TO220-3-123		<b>Weight*</b>		2035.30 mg	
Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]	
chip	inorganic material	silicon	7440-21-3	3.934	0.19	0.19	1933	1933	
leadframe	inorganic material	phosphorus	7723-14-0	0.245	0.01		120		
	non noble metal	iron	7439-89-6	0.816	0.04		401		
	non noble metal	copper	7440-50-8	815.335	40.06	40.11	400597	401118	
	non noble metal	aluminium	7429-90-5	0.716	0.04	0.04	352	352	
wire	non noble metal	aluminium	7429-90-5	0.716	0.04	0.04	352	352	
encapsulation	organic material	carbon black	1333-86-4	2.992	0.15		1470		
	organic material	phenol formaldehyde resin	9003-35-4	35.905	1.76		17641		
	inorganic material	silicondioxide	14808-60-7	47.873	2.35		23521		
	non noble metal	metal hydroxide	-	47.873	2.35		23521		
	plastics	Epichlorohydrin, o-cresol, formaldehyde	29690-82-2	71.810	3.53		35282		
	inorganic material	silicondioxide	60676-86-0	391.961	19.26	29.40	192582	294017	
leadfinish	non noble metal	tin	7440-31-5	21.462	1.05	1.05	10545	10545	
plating	non noble metal	nickel	7440-02-0	1.764	0.09	0.09	867	867	
solder	non noble metal	antimony	7440-36-0	0.238	0.01		117		
	noble metal	silver	7440-22-4	0.595	0.03		292		
	non noble metal	tin	7440-31-5	1.546	0.08	0.12	760	1169	
heatspreader	inorganic material	phosphorus	7723-14-0	0.177	0.01		87		
	non noble metal	iron	7439-89-6	0.590	0.03		290		
	non noble metal	copper	7440-50-8	589.466	28.96	29.00	289622	289999	
*deviation	< 10%			Sum in total:		100.00		1000000	

### Important Remarks:

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