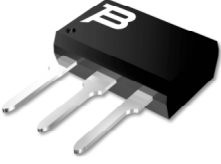


# MATERIAL DECLARATION SHEET



Package Type	3-SIP			
Product Line	TSP (Transistors & Thyristors)			
Compliance Date	November 30, 2004			
RoHS Compliant	Yes (-S suffix)	MSL	N/A	

Bourns TISP® products complying with RoHS legislation are identified with a “-S” suffix in the component part number e.g. TISP7350H3SL-S

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Encapsulation	Epoxy resin	0.350082	Fused Silica (SiO <sub>2</sub> )	60676-86-0	80.00	62.342	77.928
				Epoxy resin		11.00	8.572	
				Phenol resin		6.00	4.676	
				Antimony Oxides	1309-64-4	2.00	1.559	
				Bromine (TBBP-A)	79-94-7	1.00	0.779	
2	Leadframe	Copper alloy	0.089493	Copper	7440-50-8	97.57	19.437	19.921
				Iron	7439-89-6	2.30	0.458	
				Zinc	7440-66-6	0.10	0.020	
				Phosphorous	7723-14-0	0.03	0.006	
3	Chip	Silicon	0.004674	Silicon	7440-21-3	97.80	1.018	1.041
				Aluminium	7429-90-5	1.20	0.012	
				Titanium	7440-32-6	0.18	0.002	
				Nickel	7440-02-0	0.70	0.007	
				Gold	7440-57-5	0.12	0.001	
4	Die Attach	Silver epoxy	0.000561	Silver	7440-22-4	70.00	0.080	0.114
				Epoxy	9003-36-5	30.00	0.034	
5	Bond wires	Gold	0.000511	Gold	7440-57-5	99.99	0.114	0.114
6	Terminal Finish	Matte Tin	0.003918	Matte Tin	7440-31-5	100.00	0.872	0.872
				Total weight	0.449239			

# MATERIAL DECLARATION SHEET



## RoHS Compliance Verification.

The substance content of Bourns products in 3-SIP package has been verified for RoHS compliance. The following is a summary of analytical analysis reports from external laboratories provided to Bourns by its suppliers.

Substance	Analysis Method	Detect Limit	Unit	Material	Package Body	Leadframe	Die Attach Epoxy	Bond Wire	Terminal Finish
Lead (Pb)	ICP-AES US EPA 3050B or other acid digestion.	2	ppm	Pb/Hg/Cd & Cr+6 Analysis Result	N.D	N.D	N.D	N.D	33.0
Mercury (Hg)	ICP-AES or Mercury Analyzer US EPA 3052 or other acid digestion	2	ppm		N.D	N.D	N.D	N.D	N.D
Cadmium (Cd)	ICP-AES EN1122, Method B:2001, US EPA 3050B or other acid digestion.	2	ppm		N.D	N.D	N.D	N.D	N.D
Hexavalent Chromium (Cr+6)	UV-Vis US EPA 7196A, US EPA 3060A	2	ppm		N.D	N.D	N.D	N.D	N.D
Polybrominated biphenyls (PBBs)	GC/MS, ECDMS, LC/MS or HPLC/DAD	5	ppm	PBBs / PBDEs Analysis Result	N.D	-	N.D	N.D	-
Polybrominated diphenyl ethers (PBDEs)	GC/MS, ECDMS, LC/MS or HPLC/DAD	5	ppm		N.D	-	N.D	N.D	-

**Note:** N.D = Not Detected (<Minimum detection limit)  
 - = Not Applicable

## Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.