

MATERIAL DECLARATION SHEET



Material Number	BPS140 series 15 PSIA Pressure Sensor			
Product Line	Sensors			
Compliance Date	October 3, 2018			
RoHS Compliant	Yes	MSL	N/A	

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	Ceramic substrate A	Alumina	0.4868	Aluminum oxide	1344-28-1	94.41	44.0989	46.71
				Silicon dioxide	14808-60-7	0.98	0.4578	
				Magnesium oxide	1309-48-4	0.98	0.4578	
				Titanium	7440-32-6	0.004	0.0019	
				Copper	7440-50-8	3.256	1.5209	
				Nickel	7440-02-0	0.35	0.1635	
				Palladium	7440-05-3	0.01	0.0047	
				Gold	7440-57-5	0.01	0.0047	
2	MEMS Die A	Glass	0.034	Borosilicate	65997-17-3	58.34	1.9019	3.26
				Silicon	7440-21-3	41.61	1.3565	
				Aluminum	7429-90-5	0.05	0.0016	
3	Silicone	Silicone gel	0.023	2-Hydroxy-2-methyl-propiofenone	7473-98-5	1.3	0.0287	2.21
				Silicone resin		98.7	2.1813	
4	Plastic cover	PPS	0.189	Poly(1,4-Phenylene sulfide)	26125-40-6	60	10.878	18.13
				Glass fiber	65997-17-3	40	7.252	
5	Resistor	Resistor	0.004	Ceramic materials and wares, chemicals	66402-68-4	96.77	0.3677	0.38
				Tin	7440-31-5	1.62	0.0062	

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				Nickel	7440-02-0	1.61	0.0061	
6	Capacitor	Capacitor	0.012	Ceramic materials and wares, chemicals	66402-68-4	96.77	1.1129	1.15
				Tin	7440-31-5	1.62	0.0186	
				Nickel	7440-02-0	1.61	0.0185	
7	ASIC Die	Die	0.0082	Silicon	7440-21-3	97.7817	0.7725	0.79
				Aluminum	7429-90-5	0.1249	0.0010	
				Polyimide	60842-76-4	1.4223	0.0112	
				Silicon dioxide	7631-86-9	0.4132	0.0033	
				Trisilicon-tetranitride	12033-89-5	0.2309	0.0018	
				Titanium nitride	25583-20-4	0.027	0.0002	
8	Solder	Solder	0.008	Tin	7440-31-5	96.15	0.7403	0.77
				Silver	7440-22-4	3.31	0.0255	
				Copper	7440-50-8	0.54	0.0042	
9	Ceramic button	Alumina	0.2772	Aluminum oxide	1344-28-1	99	26.334	26.60
				Silicon dioxide	14808-60-7	0.5	0.133	
				Magnesium oxide	1309-48-4	0.5	0.133	
		Total weight	1.0422					

This Document was updated on: 6-13-2019

Important remarks:

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