


# MATERIAL DECLARATION SHEET

**BOURNS®**

Material #	6637S	
Product Line	Precisions	
Posted Date		
Compliance Date	Since Inception	
RoHS Compliant	Yes	

No.	Construction element	Material group	Material weight [g]	Materials	CAS If applicable	Average mass [%]	Sum [%]
1	Contact Spring	Palmet Alloy	0.00095	Copper	7440-50-8	0-20%	0.0043%
				Nickel	7440-05-0	0-20%	
				Palladium	7440-05-3	40-60%	
				Platinum	7440-06-4	0-20%	
				Silver	7440-22-4	20-40%	
2	C-Ring	Stainless Steel Alloy	0.009	Iron	7439-89-6	48-89%	0.041%
				Chromium	7440-47-3	18%	
				Nickel	7440-02-0	0-22%	
				Manganese	7439-96-5	0-15%	
				Tungsten	7440-33-7	0-4%	
				Molybdenum	7439-98-7	0-4%	
				Aluminum	7429-90-5	0-2%	
				Copper	7440-50-8	0-4%	
				Silicon	7440-51-3	0-5%	
3	Hex Nut	Brass Alloy	1.179	Copper	7440-50-8	55.5-86%	5.361%
				Zinc	7440-66-6	13.90-42.5%	
				Lead	7439-92-1	.00-3.7%	
				Tin	7440-31-5	.00-1.2%	
				Aluminum	7429-90-5	.00-2.3%	
				Manganese	7439-96-5	.00-3.5%	
				Silicon	7440-21-3	.00-1.5%	
4	Lock Washer	Steel Alloy	0.2975	Carbon	7440-11-0	0.51%	1.352%
				Manganese	7439-98-5	0.75%	
				Phosphorus	7723-14-0	0.02%	
				Sulfur	7704-39-9	0.025%	
				Iron	7439-89-6	98.695%	
				Chromium	7440-47-3	0.1%	
				Tin	7440-31-5	0.64%	
		Plating	Zinc	7440-66-6	100%		

5	Washer	Stainless Steel Alloy	0.00153	Iron	7439-89-6	70%	0.0069%
				Chromium	7440-47-3	18%	
				Manganese	7439-96-3	2%	
				Nickel	7440-02-0	9%	
				Silicon	7440-21-3	1%	
6	Washer	Stainless Steel Alloy	0.01	Iron	7439-89-6	70%	0.045%
				Chromium	7440-47-3	18%	
				Manganese	7439-96-3	2%	
				Nickel	7440-02-0	9%	
				Silicon	7440-21-3	1%	
7	Washer	Stainless Steel Alloy	0.01	Iron	7439-89-6	70%	0.045%
				Chromium	7440-47-3	18%	
				Manganese	7439-96-3	2%	
				Nickel	7440-02-0	9%	
				Silicon	7440-21-3	1%	
8	Cover	Diallyl Phthalate	1.93	Antimony Trioxide	1309-64-4	<5%	0.878%
				Aluminum Hydroxide	21645-51-2	<20%	
				Diallyl Phthalate	*****	Remainder	
				Glass Fiber	65997-17-3	<50%	
9	Terminal	Plating	0.137	Gold	7440-57-5	>90.00%	0.622%
		Leaded Brass Alloy		Copper	7440-50-8	55-72%	
				Lead	7439-92-1	0-3.5%	
				Tin	7440-31-5	0-1%	
				Zinc	7440-66-6	35-45%	
11	Termination Ink	Ink	0.0005	Formaldehyde Polymer with Phenol & Methyl phenol	9039-25-2	<20%	0.0022%
				2-Ethyl Acetate	124-17-4	<30%	
				Silver	7440-22-4	<50%	
12	Modified Ink	Ink	0.003	Amorphous Silica	7631-86-9	<3%	0.0136%
				Carbon	7440-44-0	20%	
				Silver	7440-22-4	<42%	
				Phenolic Resin	*****	<66%	
13	Conductive Epoxy	BCC	0.0004	Bisphenol A Polyglycidyl Ether	25068-38-6	27%	0.0018%
				Butyl Glycidyl Ether	2426-08-6	9%	
				Silver	7440-22-4	64%	
14	Ink	Ink	0.0003	Amorphous Silica	7631-86-9	<3%	0.0014%
				Carbon	7440-44-0	20%	
				Silver	7440-22-4	<42%	
				Phenolic Resin	*****	<66%	
				Nickel	7440-02-0	8.90	

15	Shaft	Stainless Steel Alloy	12.84	Nickel	7440-02-0	8.90	58.382%	
				Chromium	<del>7440-37-3</del>	<del>11.80</del>		
				Manganese - Fume	7439-96-5	1.80		
				Manganese - Compounds	7439-96-5			
				Silicon	7440-21-3	1.00		
16	C-Ring	Stainless Steel Alloy	0.009	Iron	7439-89-6	48-89%	0.041%	
				Chromium	7440-47-3	18%		
				Nickel	7440-02-0	0-22%		
				Manganese	7439-96-5	0-15%		
				Tungsten	7440-33-7	0-4%		
				Molybdenum	7439-98-7	0-4%		
				Aluminum	7429-90-5	0-2%		
				Copper	7440-50-8	0-4%		
				Silicon	7440-51-3	0-5%		
				Cobalt	1917-33-5	0-5%		
17	Contact Spring	Palmet Alloy	0.00095	Copper	7440-50-8	0-20%	0.0043%	
				Nickel	7440-05-0	0-20%		
				Palladium	7440-05-3	40-60%		
				Platinum	7440-06-4	0-20%		
				Silver	7440-22-4	20-40%		
18	Rotor	PBT	1.6	Glass	65997-17-3	10-30%	7.28%	
				Antimony Oxide	1309-64-4	1-5% Max		
				PBT	*****	65-89%		
19	Housing	PBT	2.75	Glass	65997-17-3	10-30%	12.50%	
				Antimony Oxide	1309-64-4	1-5%		
				PBT	*****	65-89%		
				Aluminum	7429-90-5	93%		
				Iron	7439-89-6	5.5%		
				Lead	7439-92-1	0.7%		
				Magnesium	7439-98-5	0.4%		
				Sulfur	7704-34-9	0.4%		
				Zinc	7440-66-6	0.3%		
				Zinc Coating	Zinc	7440-66-6		Surface Plating
				Aluminum Coating	Aluminum	7429-90-5		Surface Plating
				Total weight	21.993			

**Note:**

Per [Product Update Memo SC2436](#), this MDS is under revision. The updated version will be posted soon.