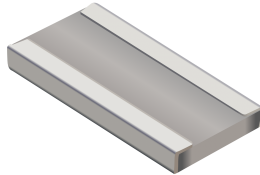


MATERIAL DECLARATION SHEET



Material Number	BTJ060320T100, BTJ060320T1L0,			
Product Line	Thermal Jumper Surface Mount Chip			
Compliance Date	2025/7/24			
RoHS Compliant	YES	MSL	1	

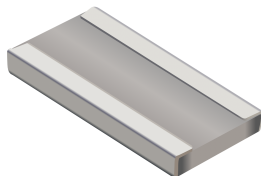
No.	Construction Element(subpart)	Homogeneous Material	Material weight [mg]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Ceramic	Ceramic	2.4404	Aluminum Nitride (AlN)	24304-00-5	95	2.3184	98.20
				Yttrium oxide (Y ₂ O ₃)	1314-36-9	5	0.1220	
2	Inner electrode	Mixed	0.0378	Copper (Cu)	7440-50-8	55	0.0208	1.52
				Nickel (Ni)	7440-02-0	44	0.0166	
				Manganese (Mn)	7439-96-5	1	0.0004	
3	Side electrode	Mixed	0.0006	Nickel (Ni)	7440-02-0	80	0.0004	0.02
				Chromium (Cr)	7440-47-3	20	0.0002	
4	Plating	Ni	0.0034	Nickel (Ni)	7440-02-0	100	0.0034	0.14
5	Plating	Sn	0.0030	Tin (Sn)	7440-31-5	100	0.0030	0.12
Total weight			2.4852					

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MATERIAL DECLARATION SHEET



Material Number	BTJ050820T100, BTJ050820T1L0			
Product Line	Thermal Jumper Surface Mount Chip			
Compliance Date	2025/7/24			
RoHS Compliant	YES	MSL	1	

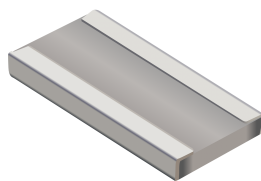
No.	Construction Element(subpart)	Homogeneous Material	Material weight [mg]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Ceramic	Ceramic	4.3861	Aluminum Nitride (AlN)	24304-00-5	95	4.1669	98.20
				Yttrium oxide (Y ₂ O ₃)	1314-36-9	5	0.2192	
2	Inner electrode	Mixed	0.0982	Copper (Cu)	7440-50-8	55	0.0540	1.52
				Nickel (Ni)	7440-02-0	44	0.0432	
				Manganese (Mn)	7439-96-5	1	0.0010	
3	Side electrode	Mixed	0.0015	Nickel (Ni)	7440-02-0	80	0.0012	0.02
				Chromium (Cr)	7440-47-3	20	0.0003	
4	Plating	Ni	0.0289	Nickel (Ni)	7440-02-0	100	0.0289	0.14
5	Plating	Sn	0.0270	Tin (Sn)	7440-31-5	100	0.0270	0.12
Total weight			4.5417					

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MATERIAL DECLARATION SHEET



Material Number	BTJ061225T100, BTJ061225T1L0			
Product Line	Thermal Jumper Surface Mount Chip			
Compliance Date	2025/7/24			
RoHS Compliant	YES	MSL	1	

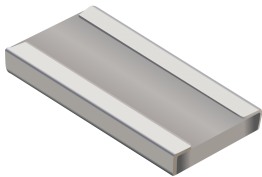
No.	Construction Element(subpart)	Homogeneous Material	Material weight [mg]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Ceramic	Ceramic	9.5236	Aluminum Nitride (AlN)	24304-00-5	95	9.0474	98.20
				Yttrium oxide (Y ₂ O ₃)	1314-36-9	5	0.4762	
2	Inner electrode	Mixed	0.1472	Copper (Cu)	7440-50-8	55	0.0809	1.52
				Nickel (Ni)	7440-02-0	44	0.0648	
				Manganese (Mn)	7439-96-5	1	0.0015	
3	Side electrode	Mixed	0.0022	Nickel (Ni)	7440-02-0	80	0.0018	0.02
				Chromium (Cr)	7440-47-3	20	0.0004	
4	Plating	Ni	0.0343	Nickel (Ni)	7440-02-0	100	0.0343	0.14
5	Plating	Sn	0.0405	Tin (Sn)	7440-31-5	100	0.0405	0.12
Total weight			9.7478					

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MATERIAL DECLARATION SHEET



Material Number	BTJ120625T100, BTJ120625T1L0			
Product Line	Thermal Jumper Surface Mount Chip			
Compliance Date	2025/7/24			
RoHS Compliant	YES	MSL	1	

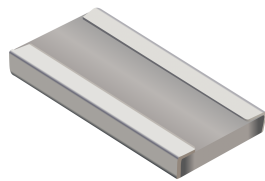
No.	Construction Element(subpart)	Homogeneous Material	Material weight [mg]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Ceramic	Ceramic	9.4293	Aluminum Nitride (AlN)	24304-00-5	95	8.9577	98.20
				Yttrium oxide (Y ₂ O ₃)	1314-36-9	5	0.4716	
2	Inner electrode	Mixed	0.0526	Copper (Cu)	7440-50-8	55	0.0289	1.52
				Nickel (Ni)	7440-02-0	44	0.0232	
				Manganese (Mn)	7439-96-5	1	0.0005	
3	Side electrode	Mixed	0.0013	Nickel (Ni)	7440-02-0	80	0.0010	0.02
				Chromium (Cr)	7440-47-3	20	0.0003	
4	Plating	Ni	0.0104	Nickel (Ni)	7440-02-0	100	0.0104	0.14
5	Plating	Sn	0.0097	Tin (Sn)	7440-31-5	100	0.0097	0.12
Total weight			9.5033					

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MATERIAL DECLARATION SHEET



Material Number	BTJ1225T200, BTJ1225T2L0			
Product Line	Thermal Jumper Surface Mount Chip			
Compliance Date	2025/7/24			
RoHS Compliant	YES	MSL	1	

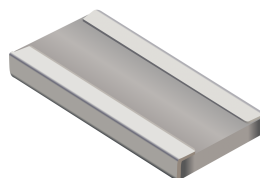
No.	Construction Element(subpart)	Homogeneous Material	Material weight [mg]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Ceramic	Ceramic	35.5723	Aluminum Nitride (AlN)	24304-00-5	95	33.7936	98.20
				Yttrium oxide (Y ₂ O ₃)	1314-36-9	5	1.7787	
2	Inner electrode	Mixed	0.3523	Copper (Cu)	7440-50-8	55	0.1938	1.52
				Nickel (Ni)	7440-02-0	44	0.1550	
				Manganese (Mn)	7439-96-5	1	0.0035	
3	Side electrode	Mixed	0.0100	Nickel (Ni)	7440-02-0	80	0.0080	0.02
				Chromium (Cr)	7440-47-3	20	0.0020	
4	Plating	Ni	0.1225	Nickel (Ni)	7440-02-0	100	0.1225	0.14
5	Plating	Sn	0.1059	Tin (Sn)	7440-31-5	100	0.1059	0.12
Total weight			36.163					

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MATERIAL DECLARATION SHEET



Material Number	BTJ251225T200, BTJ251225T2L0			
Product Line	Thermal Jumper Surface Mount Chip			
Compliance Date	2025/7/24			
RoHS Compliant	YES	MSL	1	

No.	Construction Element(subpart)	Homogeneous Material	Material weight [mg]	Homogeneous Material Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Ceramic	Ceramic	35.5723	Aluminum Nitride (AlN)	24304-00-5	95	33.7936	98.20
				Yttrium oxide (Y ₂ O ₃)	1314-36-9	5	1.7787	
2	Inner electrode	Mixed	0.1142	Copper (Cu)	7440-50-8	55	0.0628	1.52
				Nickel (Ni)	7440-02-0	44	0.0503	
				Manganese (Mn)	7439-96-5	1	0.0011	
3	Side electrode	Mixed	0.0054	Nickel (Ni)	7440-02-0	80	0.0043	0.02
				Chromium (Cr)	7440-47-3	20	0.0011	
4	Plating	Ni	0.0451	Nickel (Ni)	7440-02-0	100	0.0451	0.14
5	Plating	Sn	0.0423	Tin (Sn)	7440-31-5	100	0.0423	0.12
Total weight			35.7793					

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