

CONSTITUTION MATERIALS LIST

The RoHS directive, REACH regulation, and other laws and regulations related to the management of environmentally hazardous substances come into effect. When developing products, the global environmental load must be considered. ROHM pursues green procurement and endeavors to increase the detection accuracy of chemicals contained in parts and procured materials while at the same time placing great importance on the internal chemical management system that was built to ensure that no prohibited substances are procured, used, or shipped in order to provide a steady supply of worry-free products.

TR-LPTS-JE_Rev.6

Type	Package Code	ROHM Package	Mass (mg)	Part No.
Transistor	TO-263(D2PAK)	LPTS	1446.1280	-

No	Part Name	Weight (mg)	Substance Name	CAS No	Weight (mg)	Portion vs. Products	Portion vs. Part Name
1	Mold compound	472.5050	Silica (crystalline)	14808-60-7	380.9720	26.34%	80.63%
			Epoxy resin	29690-82-2	49.4770	3.42%	10.47%
			Phenol-formaldehyde resin	9003-35-4	34.6340	2.39%	7.33%
			Epoxy resin bromide	68541-56-0	4.9480	0.34%	1.05%
			Antimony trioxide	1309-64-4	2.4740	0.17%	0.52%
			<i>Subtotal</i>		<i>472.5050</i>	<i>32.67%</i>	<i>100%</i>
2	Lead frame (Base material)	936.0630	Copper (Cu)	7440-50-8	936.0630	64.73%	100.00%
			<i>Subtotal</i>		<i>936.0630</i>	<i>64.73%</i>	<i>100%</i>
3	External plating	6.4070	Tin (Sn)	7440-31-5	6.2789	0.43%	98.00%
			Copper (Cu)	7440-50-8	0.1281	0.01%	2.00%
			<i>Subtotal</i>		<i>6.4070</i>	<i>0.44%</i>	<i>100%</i>
4	Die	17.8500	Silicon (Si)	7440-21-3	17.5770	1.22%	98.47%
			Nickel (Ni)	7440-02-0	0.1490	0.01%	0.83%
			Silver (Ag)	7440-22-4	0.0860	0.01%	0.48%
			Gold (Au)	7440-57-5	0.0380	0.00%	0.21%
			<i>Subtotal</i>		<i>17.8500</i>	<i>1.23%</i>	<i>100%</i>
5	Die attach	11.0030	Lead (Pb) *2	7439-92-1	10.5079	0.73%	95.50%
			Tin (Sn)	7440-31-5	0.2201	0.02%	2.00%
			Silver (Ag)	7440-22-4	0.2751	0.02%	2.50%
			<i>Subtotal</i>		<i>11.0030</i>	<i>0.76%</i>	<i>100%</i>
6	Bonding wire	2.3000	Aluminum (Al)	7429-90-5	2.3000	0.16%	100.00%
			<i>Subtotal</i>		<i>2.3000</i>	<i>0.16%</i>	<i>100%</i>
			<i>Total</i>	-	<i>1446.1280</i>	<i>100%</i>	<i>-</i>

Note

*2 : It is exempted from the RoHS, because of the high melting point solder.

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