

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-SOP8_Cu-HF-JE_Rev.6

Type	Package Code	ROHM Package	Mass (mg)	Part No.
Transistor	-	SOP8 (Halogen free)	79.0000	-

No	Part Name	Weight (mg)	Substance Name	CAS No	Weight (mg)	Portion vs. Products	Portion vs. Part Name
1	Mold compound	38.4600	Silica (amorphous)	60676-86-0	34.0390	43.09%	88.50%
			Epoxy resin	29690-82-2	2.3444	2.97%	6.10%
			Phenol-formaldehyde resin	9003-35-4	1.9585	2.48%	5.09%
			Carbon black	1333-86-4	0.1181	0.15%	0.31%
			<i>Subtotal</i>		<i>38.4600</i>	<i>48.68%</i>	<i>100%</i>
2	Lead frame (Base material)	35.0900	Copper (Cu)	7440-50-8	34.2829	43.40%	97.70%
			Iron (Fe)	7439-89-6	0.8071	1.02%	2.30%
			<i>Subtotal</i>		<i>35.0900</i>	<i>44.42%</i>	<i>100%</i>
3	Lead frame (Surface treatment)	0.5500	Silver (Ag)	7440-22-4	0.5500	0.70%	100.00%
			<i>Subtotal</i>		<i>0.5500</i>	<i>0.70%</i>	<i>100%</i>
4	External plating	1.2680	Tin (Sn)	7440-31-5	1.2680	1.61%	100.00%
			<i>Subtotal</i>		<i>1.2680</i>	<i>1.61%</i>	<i>100%</i>
5	Die	2.8000	Silicon (Si)	7440-21-3	2.7500	3.48%	98.21%
			Nickel (Ni)	7440-02-0	0.0270	0.03%	0.96%
			Silver (Ag)	7440-22-4	0.0160	0.02%	0.57%
			Gold (Au)	7440-57-5	0.0070	0.01%	0.25%
			<i>Subtotal</i>		<i>2.8000</i>	<i>3.54%</i>	<i>100%</i>
6	Die attach	0.2500	Silver (Ag)	7440-22-4	0.2093	0.26%	83.70%
			Epoxy Resin	-	0.0408	0.05%	16.30%
			<i>Subtotal</i>		<i>0.2500</i>	<i>0.32%</i>	<i>100%</i>
7	Bonding wire	0.5820	Copper (Cu)	7440-50-8	0.5820	0.74%	100.00%
			<i>Subtotal</i>		<i>0.5820</i>	<i>0.74%</i>	<i>100%</i>
			<i>Total</i>	-	<i>79.0000</i>	<i>100%</i>	-

Note

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