



# 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-EMT3F-JE\_Rev.7

Type	Package Code	ROHM Package	Mass (mg)	Part No.
Transistor	SOT-416FL(SC-89)	EMT3F	2.2980	-

No	Part Name	Weight (mg)	Substance Name	CAS No	Weight (mg)	Portion vs. Products	Portion vs. Part Name	
1	Mold compound	1.2710	Silica (amorphous)	60676-86-0	0.9223	40.13%	72.56%	
			Epoxy resin	29690-82-2	0.1713	7.45%	13.48%	
			Phenol resin	9003-35-4	0.1054	4.59%	8.29%	
			Brominated epoxy resin	68541-56-0	0.0461	2.01%	3.63%	
			Antimony trioxide	1309-64-4	0.0132	0.57%	1.04%	
			Organic phosphorus compounds	-	0.0062	0.27%	0.49%	
			Azo compound*1	-	0.0062	0.27%	0.49%	
			Chromium compounds except for hexavalent chromium compounds	-	0.0003	0.01%	0.02%	
			<i>Subtotal</i>		<i>1.2710</i>	<i>55.31%</i>	<i>100%</i>	
2	Lead frame (Base material)	0.7950	Iron (Fe)	7439-89-6	0.4611	20.07%	58.00%	
			Nickel (Ni)	7440-02-0	0.3339	14.53%	42.00%	
						<i>Subtotal</i>	<i>0.7950</i>	<i>34.60%</i>
3	Lead frame (Surface treatment)	0.1061	Copper (Cu)	7440-50-8	0.1061	4.62%	100.00%	
			<i>Subtotal</i>	<i>0.1061</i>	<i>4.62%</i>	<i>100%</i>		
4	External plating	0.0650	Tin (Sn)	7440-31-5	0.0650	2.83%	100.00%	
			0.0000mg	0.0000mg	0.0000	0.00%	0.00%	
						<i>Subtotal</i>	<i>0.0650</i>	<i>2.83%</i>
5	Die	0.0529	Silicon (Si)	7440-21-3	0.0481	2.09%	90.93%	
			Gold (Au)	7440-57-5	0.0048	0.21%	9.07%	
						<i>Subtotal</i>	<i>0.0529</i>	<i>2.30%</i>
6	Bonding wire	0.0080	Gold (Au)	7440-57-5	0.0080	0.35%	100.00%	
						<i>Subtotal</i>	<i>0.0080</i>	<i>0.35%</i>
				<i>Total</i>	<i>-</i>	<i>2.2980</i>	<i>100%</i>	<i>-</i>

## Note

\*1 : Not created amine.

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