

# Product Document

# Material Declaration Form

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Ordering Code	Package Family	Assembly Material Number	Lead Count	Weight (mg)	Manufacturing Country	Halogen Free	EU RoHS	China RoHS	Release Status	Version
AS5147U-HTST	XDLF TSSOP 4.4mm, 0.65mm	505580009	14	56.5		YES	YES	YES	FULL	1

Homogenous Material	Weight (mg)	Symbol	Chemical Substance	Input Ratio (%)	CAS Number	Unit Weight (mg)	Unit Weight (%)	Amount (ppm)
Leadframe	29	Ag	Silver	0.30	7440-22-4	0.08700	0.15398	1540
		Cu	Copper	95.90	7440-50-8	27.81100	49.22301	492230
		Mg	Magnesium	0.15	7439-95-4	0.04350	0.07699	770
		Ni	Nickel	3.00	7440-02-0	0.87000	1.53982	15398
		Si	Silicon	0.65	7440-21-3	0.18850	0.33363	3336
<b>Subtotal:</b>				<b>100.00</b>		<b>29.00000</b>	<b>51.32743</b>	<b>513274</b>
Adhesive	2.3	Ag	Silver	73.00	7440-22-4	1.67900	2.97168	29717
		BLO (1-10)	Gamma Butyrolactone	3.00	96-48-0	0.06900	0.12212	1221
			Epoxy Resin	21.00	25928-94-3	0.48300	0.85487	8549
			Silver Oxide	3.00	1301-96-8	0.06900	0.12212	1221
<b>Subtotal:</b>				<b>100.00</b>		<b>2.30000</b>	<b>4.07080</b>	<b>40708</b>
IC	6.4	Si	Silicon	95.00	7440-21-3	6.08000	10.76106	107611
			Polyimide	5.00	58698-66-1	0.32000	0.56637	5664
<b>Subtotal:</b>				<b>100.00</b>		<b>6.40000</b>	<b>11.32743</b>	<b>113274</b>
Wire	0.1	Au	Gold	99.00	7440-57-5	0.09900	0.17522	1752
			Pd	Palladium	1.00	7440-05-3	0.00100	0.00177
<b>Subtotal:</b>				<b>100.00</b>		<b>0.10000</b>	<b>0.17699</b>	<b>1770</b>

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Homogenous Material	Weight (mg)	Symbol	Chemical Substance	Input Ratio (%)	CAS Number	Unit Weight (mg)	Unit Weight (%)	Amount (ppm)
Moldcompound	17.3	SiO2	Silica Fused	85.00	60676-86-0	14.70500	26.02655	260265
			Carbon Black	0.30	1333-86-4	0.05190	0.09186	919
			Epoxy Resin	9.00	25928-94-3	1.55700	2.75575	27558
			Phenol Resin	5.70	28064-14-4	0.98610	1.74531	17453
<b>Subtotal:</b>			<b>100.00</b>		<b>17.30000</b>	<b>30.61947</b>	<b>306195</b>	
Plating	1.4	Sn	Tin	100.00	7440-31-5	1.40000	2.47788	24779
			<b>Subtotal:</b>			<b>100.00</b>		<b>1.40000</b>
<b>Total:</b>	<b>56.5</b>					<b>56.50</b>	<b>100.00000</b>	<b>1000000</b>

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