

Materials Declaration

Company Name : Fox Electronics

**Address : 5570 Enterprise Parkway
: Ft Myers FL 33905**

Phone : 239-690-2238

Fax : 239-690-3438

E-mail : brucec@foxonline.com

Completed by Bruce Clark

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Product Family : DIP8 Oscillator (HSC-2E series)

	Material Name	Component	Content (mg)	Content (w t %)	(CAS Number)
Cover	Stainless Steel	Nickel (Ni)	49.08	2.3362%	7440-02-0
		Chromium (Cr)	109.44	5.2093%	7740-47-3
		Iron (Fe)	431.96	20.5612%	7439-89-6
		Manganese (Mn)	6.240	0.2970%	7439-96-5
		Silicon (Si)	2.880	0.1371%	7440-21-3
		Carbon C	0.264	0.0126%	7440-44-0
		Sulphur (S)	0.006	0.0003%	7704-34-9
		Phosphorus (P)	0.126	0.0060%	7723-14-0
Header	Iron Alloy	Iron (Fe)	1017.246	48.4202%	7439-89-6
		Carbon C	0.510	0.0243%	7440-44-0
		Silicon (Si)	0.102	0.0049%	7440-21-3
		Manganese (Mn)	2.347	0.1117%	7439-96-5
		Phosphorus (P)	0.143	0.0068%	7723-14-0
		Sulphur (S)	0.051	0.0024%	7704-34-9
	+ PTH Glass	Glass Frit	12.300	0.5855%	65997-18-4
	+ Standoff Glass	Glass Frit	36.000	1.7136%	65997-18-4
	+ Kovar leads	Iron (Fe)	25.207	1.1998%	7439-89-6
		Nickel (Ni)	13.888	0.6611%	7440-02-0
		Cobalt (Co)	8.105	0.3858%	7440-48-4
	+ Solder Dip	Tin (Sn)	3.150	0.1499%	7440-31-5
		Lead (Pb)	1.850	0.0881%	7439-92-1
	H/I C	IC Die	Aluminum (Al)	0.0016	0.00008%
Molybdenum (Mo)			0.0002	0.000010%	7439-98-7
Silicon (Si)			0.7979	0.04%	7440-21-3
Titanium (Ti)			0.00035	0.000017%	7440-32-6
Arsenic (As)			0.00001000	0.00000048%	7440-38-2
Chromium (Cr)			0.000000738	0.00000004%	7440-47-3
Mold		Epoxy resin	4.6800	0.223%	129915-35-1
		Organic Phosphorus	0.4160	0.020%	
		Metal Hydroxide	1.8200	0.087%	
		Silica (SiO ₂)	41.2880	1.965%	60676-86-0
		Carbon Black	0.1570	0.007%	1333-86-4
		Phenol	3.6400	0.173%	9003-35-4
Gold		Gold (Au)	0.1400	0.007%	7440-57-5
Adhesive		Silver (Ag)	0.037750	0.001797%	7440-22-4
		Epoxy Resin	0.012250	0.0005831%	129915-35-1
Leadframe		Copper (Cu)	18.5250	0.8818%	7440-50-8
		Silver (Ag)	0.4750	0.0226%	7440-22-4
Leadframe Plating		Tin (Sn)	0.676000	0.0322%	7440-31-5
		Silver (Ag)	0.016900	0.0008%	7440-22-4

Fox Electronics Headquarters
5570 Enterprise Parkway
Fort Myers, FL, 33905 USA
Tel: 888-GET-2-FOX
Outside US: +1.239.693.0099
Fax: +1.239.693.1554

Fox Electronics EMEA
14 Banks Road
Biggleswade, Bedfordshire
SG18 0DY, United Kingdom
Tel/Fax: +44.1767.312632

Fox Electronics Asia
4/F Gold & Silver Commercial Bldg.
12-18 Mercer St.
Central, Hong Kong
Tel: +852.2854.4285
Fax: +852.2854.4282

Fox Electronics Japan
3-28-6-1A Yoyogi
Shibuya-ku, Tokyo 151
Japan
Tel: +81.3.3374.2079
Fax: +81.3.3377.5221

H5C-2E Continued

	Ceramic Substrate	Alumina (Al ₂ O ₃)	199.7100	9.5061%	1344-28-1
		Silicon Oxide (SiO)	4.9980	0.2379%	11126-22-0
		Titanium Oxide (TiO ₂)	0.0210	0.001000%	13463-67-7
		Iron Oxide (Fe ₂ O ₃)	0.1260	0.005998%	1309-37-1
		Calcium Oxide (CaO)	0.7560	0.035985%	1305-78-8
		Sodium Oxide (Na ₂ O)	0.5040	0.023990%	1313-59-3
		Magnesium Oxide (MgO)	1.9740	0.093961%	1309-48-4
		Potassium Oxide (K ₂ O)	1.6800	0.079967%	12136-45-7
	Conductor	Silver (Ag)	3.4000	0.161838%	7440-22-4
		Glycol Ethyl Ether	0.2000	0.009520%	109-87-5
		Terpineol	0.2000	0.009520%	8000-41-7
		Di(2-ethylhexyl) Phthalate	0.0400	0.001904%	117-81-7
	Conductor Overglaze	Resin, Hydrogenated, methyl ester	0.1500	0.007140%	8050-15-5
		Glass Frit	4.1200	0.196109%	65997-18-4
		Glycol Ethyl Ether	0.3100	0.014756%	109-87-5
		Terpineol	0.4500	0.021420%	8000-41-7
		Di(2-ethylhexyl) Phthalate	0.2000	0.009520%	117-81-7
		Nickel (Ni)	0.0500	0.002380%	7440-02-0
	Chip Cap	Barium Titanate (BaTiO ₃)	1.1994	0.057091%	12047-27-7
		Nickel (Ni)	0.0002	0.000011%	7440-02-0
		Copper (Cu)	0.0001	0.000006%	7440-50-8
		Nickel (Ni) (PLATING)	0.0001	0.000006%	7440-02-0
		Tin (Sn) (PLATING)	0.0001	0.000006%	7440-31-5
	SMD Solder	Tin (Sn)	10.6150	0.505266%	7440-31-5
		Silver (Ag)	0.3850	0.018326%	7440-22-4
	Substrate attach solder	Tin (Sn)	19.3000	0.918666%	7440-31-5
		Silver (Ag)	0.6000	0.028560%	7440-22-4
Copper (Cu)		0.1000	0.004760%	7440-50-8	
Crystal	Crystal	40.00	1.90%	14808-60-7	
	Electrode	6.000	0.2856%	7440-22-4	
	Blank Adhesive	Silver (Ag)	8.16000	0.388410%	7440-22-4
		Silicon (Si)	2.04000	0.097103%	7440-21-3
TOTAL		2100.9	100.00%		