

Material Declaration for P1113CA3

Product Information	
Part Number:	P111CA3
Part Description:	ATE Spring Probe
Part Weight (g):	0.222

Process Data	
Peak Reflow (Deg. C)	260°C for 10 seconds
Termination Finish	Gold over Nickel
RoHS Compliant? (Y/N)	Yes

Homogeneous Material Location	Weight (g)	Tolerance	Substance Name	CAS #
Probe Barrel/Body - Brass	0.0297	3%	Copper	7440-50-8
	0.0193	4%	Zinc	7440-66-6
	0.00139	2%	Lead	7439-92-1
	0	0.000252g max	Iron (impurity only)	7439-89-6
	0	0.000353g max	Tin (impurity only)	7440-31-5
Probe Barrel/Body - Plating	0.00392	10%	Nickel	7440-02-0
	0.00106	20%	Gold	7440-57-5
Probe Head/Plunger - Brass	0.0928	3%	Copper	7440-50-8
	0.0602	4%	Zinc	7440-66-6
	0.00433	2%	Lead	7439-92-1
	0	0.000787g max	Iron (impurity only)	7439-89-6
	0	0.0011g max	Tin (impurity only)	7440-31-5
Probe Head/Plunger - Plating	0.00107	10%	Nickel	7440-02-0
	0.00029	20%	Gold	7440-57-5
Probe Spring - Stainless Steel	0.0069	3%	Iron	7439-89-6
	0.000006	0.1%	Carbon	7440-44-0
	0.000015	0.2%	Silicon	7440-21-3
	0.000032	0.3%	Manganese	7439-96-5
	0	0.000002g max	Phosphorus (impurity only)	7723-14-0
	0	0.000002g max	Sulphur (impurity only)	7704-34-9
Probe Spring - Plating	0	0.000014g max	Copper (impurity only)	7440-50-8
	0.000668	3%	Nickel	7440-02-0
	0.000048	2%	Gold	7440-57-5

Prepared by: *M. J. Perry*

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On behalf of: **HARWIN**