

## Material Composition for M80-01900XX

Product Information	
Part Number:	M80-0190001
Part Description:	2mm Crimp Datamate contact
Part Weight (g):	0.0741

Process Data	
Peak Reflow (Deg. C)	n/a
Termination Finish	Tin over Nickel & Copper
RoHS Compliant? (Y/N)	Yes

Note: Tin plating is subject to 1,000ppm max Lead impurity.

Homogeneous Material Location	Weight (g)	Tolerance	Substance Name	CAS #
Contact Shell - Brass	0.0426	2%	Copper	7440-50-8
	0.0253	1%	Zinc	7440-66-6
	0.00139	0.5%	Lead	7439-92-1
	0	0.000139g max	Iron (impurity only)	7439-89-6
	0	0.000139g max	Tin (impurity only)	7440-31-5
	0	0.000208g max	Nickel (impurity only)	7440-02-0
Contact Shell - Plating	0	0.000035g max	Aluminium (impurity only)	7429-90-5
	0	0.000347g max	Other Impurities	
	0.0015	5%	Tin	7440-31-5
	0.000684	10%	Nickel	7440-02-0
	0.000457	10%	Copper	7440-50-8
Contact Clip - Beryllium Copper	0.00207	1%	Copper	7440-50-8
	0.00004	0.5%	Beryllium	7440-41-7
	0	0.000006g max	Nickel (impurity only)	7440-02-0
	0	0.000006g max	Cobalt (impurity only)	7440-48-4
	0	0.000004g max	Iron (impurity only)	7439-89-6
	0	0.000004g max	Aluminium (impurity only)	7429-90-5
	0	0.000004g max	Silicon (impurity only)	7440-21-3
	0	0.000011g max	Other Impurities	
Contact Clip - Plating	0.000057	10%	Nickel	7440-02-0
	0.000006	5%	Gold	7440-57-5

## Material Composition for M80-01900XX

Product Information	
Part Number:	M80-0190005
Part Description:	2mm Crimp Datamate contact
Part Weight (g):	0.073

Process Data	
Peak Reflow (Deg. C)	n/a
Termination Finish	Gold over Nickel & Copper
RoHS Compliant? (Y/N)	Yes

Homogeneous Material Location	Weight (g)	Tolerance	Substance Name	CAS #
Contact Shell - Brass	0.0426	2%	Copper	7440-50-8
	0.0253	1%	Zinc	7440-66-6
	0.00139	0.5%	Lead	7439-92-1
	0	0.000139g max	Iron (impurity only)	7439-89-6
	0	0.000139g max	Tin (impurity only)	7440-31-5
Contact Shell - Plating	0	0.000208g max	Nickel (impurity only)	7440-02-0
	0	0.000035g max	Aluminium (impurity only)	7429-90-5
	0	0.000347g max	Other Impurities	
	0.000277	5%	Gold	7440-57-5
	0.000684	10%	Nickel	7440-02-0
Contact Clip - Beryllium Copper	0.000571	10%	Copper	7440-50-8
	0.00207	1%	Copper	7440-50-8
	0.00004	0.5%	Beryllium	7440-41-7
	0	0.000006g max	Nickel (impurity only)	7440-02-0
	0	0.000006g max	Cobalt (impurity only)	7440-48-4
	0	0.000004g max	Iron (impurity only)	7439-89-6
	0	0.000004g max	Aluminium (impurity only)	7429-90-5
	0	0.000004g max	Silicon (impurity only)	7440-21-3
	0	0.000011g max	Other Impurities	
	0.000057	10%	Nickel	7440-02-0
Contact Clip - Plating	0.000006	5%	Gold	7440-57-5

Prepared by:

*M. J. Perry*

Martin J Perry, BSc(Eng) MSc CEng MIET  
Compliance Specialist  
ComplianceTeam@harwin.co.uk

On behalf of:

**HARWIN**