

Material Composition for M55-210XX42R

Product Information	
Part Number:	M55-2100242R
Part Description:	1.27mm Pitch Socket
Part Weight (g):	0.204

Process Data	
Peak Reflow (Deg. C)	260°C for 10 seconds
Termination Finish	100% Tin over Nickel
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 #
Contacts - Chromium Zirconium Copper	0.0338	5%	Copper	7440-50-8
	0.00017	1%	Chromium	7440-47-3
	0.000016	1%	Zirconium	7440-67-7
	0	(0.000068 * XX)g max	Other Impurities	-
Contacts - Plating	0.00005	10%	Nickel	7440-02-0
	0.000052	10%	Tin	7440-31-5
	0.000002	10%	Gold	7440-57-5
Retainers - Brass	0.0247	5%	Copper	7440-50-8
	0.0132	1%	Zinc	7440-66-6
	0	0.000018g max	Iron (impurity only)	7439-89-6
	0	0.000026g max	Lead (impurity only)	7439-92-1
	0	0.000038g max	Other Impurities	-
Retainers - Plating	0.000037	10%	Nickel	7440-02-0
	0.000077	10%	Tin	7440-31-5
Housing Moulding (total weight)	0.132	6%	20% GF PPA	
Containing:	0.0924	6%	PPA	25776-72-1
	0.0264	6%	Glass Fibre	65997-17-3
	0.0132	6%	Flame Retardant	225789-38-8
Does not contain:			Other Brominated Flame Retardants	
			Antimony	

Material Composition for M55-210XX42R

Product Information	
Part Number:	M55-2100342R
Part Description:	1.27mm Pitch Socket
Part Weight (g):	0.246

Process Data	
Peak Reflow (Deg. C)	260°C for 10 seconds
Termination Finish	100% Tin over Nickel
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 #
Contacts - Chromium Zirconium Copper	0.0507	5%	Copper	7440-50-8
	0.000255	1%	Chromium	7440-47-3
	0.000024	1%	Zirconium	7440-67-7
	0	(0.000102 * XX)g max	Other Impurities	-
Contacts - Plating	0.000075	10%	Nickel	7440-02-0
	0.000078	10%	Tin	7440-31-5
	0.000003	10%	Gold	7440-57-5
Retainers - Brass	0.0247	5%	Copper	7440-50-8
	0.0132	1%	Zinc	7440-66-6
	0	0.000018g max	Iron (impurity only)	7439-89-6
	0	0.000026g max	Lead (impurity only)	7439-92-1
	0	0.000038g max	Other Impurities	-
Retainers - Plating	0.000037	10%	Nickel	7440-02-0
	0.000077	10%	Tin	7440-31-5
Housing Moulding (total weight)	0.157	6%	20% GF PPA	
Containing:	0.11	6%	PPA	25776-72-1
	0.0314	6%	Glass Fibre	65997-17-3
	0.0157	6%	Flame Retardant	225789-38-8
Does not contain:			Other Brominated Flame Retardants	
			Antimony	

Material Composition for M55-210XX42R

Product Information	
Part Number:	M55-210XX42R
Part Description:	1.27mm Pitch Socket
Part Weight (g):	(0.041 * XX) + 0.123

Process Data	
Peak Reflow (Deg. C)	260°C for 10 seconds
Termination Finish	100% Tin over Nickel
RoHS Compliant? (Y/N)	Yes

XX = 04 to 12

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

Homogeneous Material Location	Weight (g)	Tolerance	Substance Name	CAS #
Contacts - Chromium Zirconium Copper	0.0169 * XX	5%	Copper	7440-50-8
	0.000085 * XX	1%	Chromium	7440-47-3
	0.000008 * XX	1%	Zirconium	7440-67-7
	0	(0.000034 * XX)g max	Other Impurities	-
Contacts - Plating	0.000025 * XX	10%	Nickel	7440-02-0
	0.000026 * XX	10%	Tin	7440-31-5
	0.000001 * XX	10%	Gold	7440-57-5
Retainers - Brass	0.0247	5%	Copper	7440-50-8
	0.0132	1%	Zinc	7440-66-6
	0	0.000018g max	Iron (impurity only)	7439-89-6
	0	0.000026g max	Lead (impurity only)	7439-92-1
	0	0.000038g max	Other Impurities	-
Retainers - Plating	0.000037	10%	Nickel	7440-02-0
	0.000077	10%	Tin	7440-31-5
Housing Moulding (total weight)	(0.024 * XX) + 0.085	6%	20% GF PPA	
Containing:	(0.0168 * XX) + 0.0595	6%	PPA	25776-72-1
	(0.0048 * XX) + 0.017	6%	Glass Fibre	65997-17-3
	(0.0024 * XX) + 0.0085	6%	Flame Retardant	225789-38-8
Does not contain:			Other Brominated Flame Retardants	
			Antimony	

Prepared by: 

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

On behalf of:

HARWIN