

PRELIMINARY

Component	Material (20081107)	Mass CBE [g], Date:20081107 (Excluding Contingency, Sum for multiple entries)	Contingency [%] based on Design Margin Requirements Policy (Ch. 6.1.6, EXM-PL-ICD-ESA-00004,1,Rev.0) (All group cont. values rounded to full %)	Total (g) (Including Contingency)
IRAS				
ISH (IRAS Sensor Head)		168	19%	200
<i>ISH Telescope</i>				
exo-iras-02-detector_top.iam (4x)	Si/Al2O3	13	10%	14
exo-iras-04-2176-00-ls_telescope-core	AL	11	20%	13
exo-iras-04-2178-00-ls_telescope-terminator (2x)	AL	8	20%	10
exo-iras-04-2179-00-ls_det-shield	AL	3	20%	4
exo-iras-04-2175-00-ls_spacer_det-cd (16x)	POM	6	20%	7
exo-iras-04-2174-00-ls_compliance-washer_det-bc (4x)	AL	6	20%	7
exo-iras-04-2177-00-ls_telescope-screw (4x)	St	12	20%	14
<i>ISH Housing</i>				
exo-iras-01-2181-00-ls_cover-plate	MG	52	20%	62
exo-iras-01-2180-00-ls_side-face (2x)	Al	8	20%	10
<i>ISH-IDPU Interface</i>				
exo-iras-06-2188-00-ls_ish_if-board	n/a	15	20%	18
exo-iras-06-2187-00-ls_if-board-carrier	Al	4	20%	5
<i>Rest Sensor Head</i>				
screws (16x)	St	14	20%	17
Cabling RG178, (16x)	various	16	20%	19
IDPU (IRAS Data and Power Unit)		320	19%	380
<i>IDPU Housing</i>				
exo-iras-05-2186-00-ls_power-section	Mg	52	20%	62
exo-iras-05-2185-00-ls_data-section	Mg	29	20%	35
Screws	St	28	10%	31
<i>IDPU Electronics Components</i>				
PCBs (Analogue, Digital, Power)	n/a	163	20%	196
screws	St	10	10%	11
MDM15 (Data to HUMBOLDT)	n/a	10	20%	12
MDM 9 (Power to HUMBOLDT)	n/a	10	20%	12
Omnetics Connectors (I/F ISH to IDPU, I/F Ana.-Dig, I/F Dig.-Pow.)	n/a	18	20%	22
Total IRAS		488	19%	581

