

BSM Electronics Parts Lists

Author : Ian Pain / Brian Stobie
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Document Prepared By:	Ian Pain		
Document Approved By:	Gary Rae / Colin Cunningham	Signature and Date:	
Document Approved By:	Gillian Wright	Signature and Date:	
Document Released By:	Phil Parr-Burman	Signature and Date:	

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1 Warm Electronics

Parts Lists for electronic components will be issued by LAM when the detailed design is finalised.

2 Beam Steering Mechanism

2.1 SPIRE Beam Steering Mirror Assembly Standard Parts List

This list defines the space-qualified parts used in the BSM mechanism that are covered in the ESA/SCC EEE Components Specifications.

Quantity count is total for BSM project (all models) not per model.

Part number	Description	Quantity	Notes	Project approval	ESA approval
Glenair GS83513/02-FN-429B	Micro-miniature rectangular connector (MDM type) with uninsulated solder buckets. Upscreening by Glenair	6	For 3 models plus		
			Connector deleted		
3401 041 06 B 37 PS	Connector saver, 37-way MDM type	10			
3401 032 05 B	Screw lock assembly for connector saver	20			
3401 032 01 B	Screw lock assembly for connector	20			
Cu TEK-021 (30AWG)	PTFE insulated Screened Twisted Pair wire, 30 AWG	1	Changed from 3901 013 41 B 050M per CTD 01/88		
Cu TEK-020 (30AWG)	PTFE insulated Screened Twisted Quad wire, 30 AWG	1	Changed from 3901 013 46 B 050M per CTD 01/88		
			(MICROSWITCH DELETED)		
CX-1030-CU	Cernox Thermometers (CX1030)	10			

2.2 SPIRE Beam Steering Mirror Assembly Non-Standard Parts List

The following are also provided by the UK ATC

Part number	Description	Quantity	Notes	Project approval	ESA approval
000000-0239-500	Motor coils, common to PACS. Supplier is Zeiss.	40	Parts will be supplied with QA documents per Zeiss/PACS		
FP212	Infineon sensors	20	Same sensor as used on ISOPhot. ATC to supply PAD sheet. ATC incorporate in mounting (BSM-020-007) and qualify along with BSM		
	Launch Latch		deleted		
722-7959-1	Chop sensor flexible harness (jiggle frame to BSM structure) Flexitape, manufactured by TAYCO.	10	Exact spec TBD. Type will be space proven and cryogenically suitable. ATC to supply PAD sheet.		
RNF 100	Heat Shrink 2.4mm bore. (motor harness terminals, etc)	1	MIL-DTL-25053/5 class 2 (clear) or space rated equivalent.		