



NOTES

1. Small electronics provided by STA.
2. Use thermal joint compound between clamped surfaces
3. Estimated heat flow under stated temperature boundaries:
 - 6.7 W with all four split straps clamped
 - 6.0 W with three split straps clamped
 - 5.0 W with two split straps clamped
 - 3.4 W with one split strap clamped

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	PFS15116	Thermal control block	1
2	PFS15117	Thermal control block clamp	1
3	McM 92196A193	SHCS 8-32 x 7/16	4
4	McM 93235A314	SHCS M3 x 12 vented	4
5	Microtherm	Thermal cut-off	1
6	KLB-20131113	STA Microtherm clamp	1
7		Temperature sensor	1
8		Heating resistor TO220 package	1
9	McM 93235A311	SHCS M3 x 6 vented	1
10	McM 93235A312	SHCS M3 x 8 vented	1
11	PFS15115	Cold Strap	1
12	McM 93914A077	M3x4.5 Helical insert Nitronic 60	2
13	McM 96246A130	8-32x0.246 Helicoil Nitronic 60	4
14	PFS15118	Cold plate interface clamp	1
15	McM 93235A112	SHCS 4-40 x 5/8 vented	8
16	PFS15114	Cold Plate Interface	1

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MATERIAL	UNLESS OTHERWISE SPECIFIED FRACTIONAL DECIMAL ANGULAR ± 1/32 .XX ± 0.01 ± 0.1 DEG		
EST WEIGHT	lb	.XXX ± 0.002 GOAL .XXX ± 0.005 REQD BREAK SHARP EDGES. MACHINED SURFACES 125/ ALL DIMENSIONS IN INCHES	
SCALE	1:1	Planet Finder Spectrograph	CCD thermal control assembly
DRWN	CRANE	4/11/2017	SHEET DRAWING
APVD			B PFS15138 SHT 1 OF 1 REV