Appendix C

NEC CRT: Detailed Bill of Materials

NEC JC-1549VNA

Sub No. Entry No.	Name	Qty.	Material	Weight (grams)	Total (grams)
Bill of Materials for: NEC JC-1549VNA					
1.1	chassis	1	PS	1624.9	1624.9
1.2	right hand shield	1	steel	499.2	499.2
1.3	left hand shield	1	steel	417.4	417.4
1.4	top shield	1	steel	64.5	64.5
1.5	insulator pad	1	polyester	27.2	27.2
1.6	back shield	1	steel	190.5	190.5
1.7	shield brackets	4	brass	4	16
1.8	screws	46	zinc plated steel	1.6	73.6
1.9	swivel base large	1	PS	272.2	272.2
1.10	rubber feet	4	silicone rubber	0.5	2
1.11	brackets	4	brass	1	4
1.12	swivel base small	1	PS	109.9	109.9
1.13	base shield	1	steel	1079.5	1079.5
1.14	base bracket	2	PS	46.4	92.8
1.15	shadow mask	1	steel	626	626
1.16	anode connection	1	steel	3.3	3.3
1.17	anode cap	1	rubber	16.4	16.4
1.18	anode cap insert	1	steel	3.6	3.6
1.19	glass	1	glass	5511.1	5511.1
1.20	bracket 1	1	steel	46.4	46.4
1.21	bracket 2	1	steel	90.7	90.7
1.22	bracket 4	1	steel	246.7	246.7
1.23	xy control 1	1	PC	9.4	9.4
1.24	xy control 2	1	PC	6.2	6.2
Bill of Materials for: Neck assembly					
2.1	base neck	1	PS	66.9	66.9
2.2	top neck	1	PS	15.9	15.9
2.3	neck ring large 1	1	PS	15	15
2.4	neck ring small 1	1	PS	4.5	4.5
2.5	neck ring small 2	1	PS	4	4
2.6	meck ring large 2	1	PS	14.5	14.5
2.7	ferrite magnet	1		295.6	295.6
2.8	Cu attached to magnet	1	copper	134.5	134.5
2.9	Cu attached to neck	1	copper	108.9	108.9
2.10	extraneous copper	1	copper	0.4	0.4
2.11	insulating rings	4	polysulphone	4.1	16.4
2.12	brass ring	1	brass	2.1	2.1
2.13	rubber gaskets	2	rubber	6	12
2.14	screw with washers	4	zinc plated steel	2.9	11.6

Sub No. Entry No.	Name	Qty.	Material	Weight (grams)	Total (grams)
2.15	neck clamp	1	steel	4.4	4.4
2.16	brackets	4	brass	1.2	4.8
Bill of Materials for: Gun					
3.1	gun	1	steel	19.4	19.4
3.2	brackets	2	PC	2.9	5.8
3.3	attachment to glass	1	plastic	2.9	2.9
3.4	attachment to board 1	1	polycarbonate	4.2	4.2
3.5	attachment to board 2	1	polycarbonate	10.9	10.9
3.6	connectors	2	aluminum	0.4	0.8
3.7	screws	4	zinc plated steel	0.9	3.6
3.8	shield	1	steel	79.4	79.4
3.9	PWB board 194 mm x 122 mm	1	4 layer		
3.9a	heat sink	4	aluminum	17.6	70.4
3.9b	SOP	1			
3.9c	resistors	117			
3.9d	capacitors	60			
3.9e	transistors	27			
3.9f	resistors	4	7W		
3.9g	variable resistors	9			
3.9h	jumpers	7			
3.9i	connector 12 pin	1			
3.9j	connector 6 pin	1			
3.9k	connector 2 pin	2			
Bill of Materials for: Power board					
4.1	flyback transformer	1		320.8	
4.1a	wire	1	440 mm		
4.1b	connector 2 pin	1			
4.1c	wire	2	172 mm		
4.1d	wire	1	194 mm		
4.1e	magnet	1	ferrite magnet	101.6	101.6
4.1f	steel pin	1	steel	3.8	3.8
4.1g	rubber cap	1	rubber	1	1
4.1h	misc. potting material	1	silicone	176.2	176.2
4.1i	copper wire	1	copper	38.2	38.2
4.2	PWB additional 194mm x 95 mm	1	4 layer		
4.2a	capacitors	47			
4.2b	SOP	9			
4.2c	transistors	12			
4.2d	resistors	149			
4.2e	jumpers	6			
4.2f	wire	5	156 mm		
4.2g	connectors 5 pin	2			
4.3	PWB (x controller)		2 layer		
4.3a	PWB	1	114 x 20 mm		

Sub No. Entry No.	Name	Qty.	Material	Weight (grams)	Total (grams)
4.3b	inductor	1	copper	5.4	5.4
		1	baclite	4.6	4.6
4.3c	wire	2	156 mm		
4.3d	3 pin connector	1			
4.4	PWB (y controller)		2 layer		
4.4a	PWB	1	35 x 74 mm		
4.4b	wire	2	156 mm		
4.4c	3 pin connector	1			
4.4d	resistor	1			
4.5	knobs sm	5	PS	2.8	14
4.6	knobs lg	2	PS	4.4	8.8
4.7	aluminum shielding	1	aluminum	136.3	136.3
4.8	heat sink 1	1	aluminum	20.7	20.7
4.9	heat sink 2	1	aluminum	38.9	38.9
4.10	heat sink 3	1	aluminum	15.2	15.2
4.11	edge bracket	1	steel	87.2	87.2
4.12	wire	12	32 mm		
4.13	connector 12 pin	2			
4.14	PWB power, 349.5 x 245 mm	1	4 layer		
4.14a	fuse	1			
4.14b	variable resistors	1			
4.14c	resistors	251			
4.14d	capacitors	165			
4.14e	transistors	28			
4.14f	SOP	8			
4.14g	diode	1			
4.14h	junpers	25			
4.14i	inductor	1	baclite	6.8	6.8
		1	copper	9.6	9.6
		1	ferrite	7.6	7.6
	insulating tape	1	polyester	0.6	0.6
4.14j	inductor	1	baclite	8.7	8.7
		1	copper	26.8	26.8
		1	ferrite	139.5	139.5
4.14k	copper tape	1	copper	2.4	2.4
4.14 l	inductor	1	baclite	9.5	9.5
		1	copper	12	12
		1	ferrite	8.5	8.5
	insulating tape	1	polyester	4.8	4.8
4.14m	inductor	1	baclite	5.7	5.7
		1	copper	7.2	7.2
		1	ferrite	5.1	5.1
	insulating tape	1	polyester	0.5	0.5
4.14n	inductor	1	baclite	3.8	3.8
		1	copper	4.8	4.8
		1	ferrite	3.4	3.4

Sub No. Entry No.	Name	Qty.	Material	Weight (grams)	Total (grams)
	insulating tape	1	polyester	0.4	0.4
4.14 o	inductor	2	ferrite magnet	17.9	35.8
		2	copper	1.8	3.6
4.14p	inductor	2	baclite	5.4	10.8
		2	copper	4.6	9.2
		2	ferrite	4.2	8.4
4.14q	connector 15 pin	2			
4.14r	connector 3 pin	2			
4.14s	connector 5 pin	4			
4.14t	connector 6 pin	1			
4.14u	connector 2 pin	2			
4.14v	connector 4 pin	1			
4.14w	wire	4	296 mm		
4.15	power switch	1	PS	5.2	5.2
4.16	power cord receptacle	1	ABS	34	34
4.17	power cord	1	475 mm length	292.7	292.7
Bill of Materials for: PWB attached to power board by cable connector					
5.1	PWB, 82 x 30 mm	1	4 layer		
5.2	SOP	1			
5.3	resistors	2			
5.4	capacitors	4			
5.5	transistors	1			
5.6	connector 5 pin	1			
Bill of Materials for: PWB attached to power board by solder connector					
6.1	PWB, 53 x 52 mm	1	2 layer		
6.2	SOP	1			
6.3	resistors	24			
6.4	capacitors	10			
6.5	transistors	6			
6.6	connector 13 pin	1			
6.7	jumpers	4			
Bill of Materials for: PWB attached to power board by solder connector					
7.1	PWB, 44 x 96 mm	1	2 layer		
7.2	SOP	2			
7.3	resistors	37			
7.4	capacitors	11			
7.5	transistors	5			
7.6	connector 11 pin	1			
7.7	jumpers	2			
				Weight Total	11636.8