

ACETRONICS 2008 CATALOGUE

Index

Coated and uncoated FR4 laminate	P2
Courier delivery rates	P2 & P5
Post & packaging - Self calculating	P4
Bank deposit details	P3
Front panel milling	P3
Veroboard	P3
Carbide drills - Router/milling bits	P3
Jet film for making positives and negatives.	P3
DIY Self stick computer cut vinyl signs	P4
Single sided professionally made PCB pricing	P5
Production capability	P5
Track width and current capacity charts	P4
Tips on exposing, developing & etching DFP	P5
Surplus Equipment for sale	P3

AcePrint products and services P6

Lihto Div	Business cards
	Letter Heads
	Compliment slips
	Docket books
	Envelopes
	DL & Post cards
	Magnetics
Promo Div	Custom printed:-
	Pens
	Caps
	Safety Hi Vis workwear
	T-Shirts
	Banners
	A-Frames
	Teardrop Banners
	Foldup Banners
	Mugs

ACETRONICS 2009 CATALOGUE P1

This is Top Quality Laminate with trouble free *negative acting* photosensitive coating as used in Acetronics PCB production

DFP Photosensitive PCB Laminate

DFP Photosensitive PCB Laminate

Single Sided		
FR4 1.6mm 1oz		
	Unit \$	5 Pack
150x75	\$ 7.41	\$ 33.35
150x150	\$ 9.82	\$ 44.20
150x300	\$ 15.65	\$ 70.41
300x300	\$ 28.29	\$ 127.31
610x300	\$ 54.58	\$ 245.63
FR4 0.8mm 1oz		
150x75	\$ 8.09	\$ 36.42
150x150	\$ 11.19	\$ 50.34
150x300	\$ 18.38	\$ 82.69
300x300	\$ 33.75	\$ 151.88
610x300	\$ 65.50	\$ 294.75

5pk Weight

Double sided		
FR4 1.6mm 1/2oz		
	Unit \$	5 Pack
150x75	\$ 10.38	\$ 46.69
150x150	\$ 12.77	\$ 57.46
150x300	\$ 18.78	\$ 84.49
300x300	\$ 31.12	\$ 140.04
610x300	\$ 65.50	\$ 294.75
FR4 0.8mm 1/2oz		
150x75	\$ 11.33	\$ 50.99
150x150	\$ 14.54	\$ 65.45
150x300	\$ 22.05	\$ 99.23
300x300	\$ 37.13	\$ 167.06
610x300	\$ 78.60	\$ 353.70

1.6kg
3kg

400gms

Prices are subject to change without notice

Negatives are easily created using Inkjets on clear film using photo settings or on laser printers.

Use programs like Camtastic, or other gerber file programs

Block out unused areas in PCB Cad programs prior to creating gerber files to reduce ink.

Uncoated Copper clad

	Pcs	SS ea	DS ea
300x300	1	\$17.96	\$19.75
	4+	\$15.93	\$17.52
	10+	\$14.13	\$15.54

We also stock 2 and 3 mm substrate copper clad in 2oz & 3oz POA

P
r
i
c
e
s

d
o
n
o
t

i
n
c
l
u
d
e

G
S
T

P
r
i
c
e
s

d
o
n
o
t

i
n
c
l
u
d
e

G
S
T

Prices do not include GST.

Delivery: Courier up to 25kg Metro areas nation wide \$10.00

Small pieces that can fit into larger (220x110) size envelope \$2.00

www1.auspost.com.au/pac/aus_parcel.asp

Add \$3 per item for postage to non courier areas

Developer, To Suit DFP above, \$3.00/satchel. Makes 5L & is re-useable.

See postage tip on last page.

CUTTING SERVICE: Base \$15, \$0.25 per cut.

NB: On request only, developer is free with any 5 pack purchase above \$20.00

Acetronics 02 9600 6832

acetronics@acetronics.com.au

ACETRONICS 2008 CATALOGUE P2

Front panel printing - Milling holes & shapes into plastic boxes, electrical switch plates etc etc

Veroboard (holes drilled at 2.5mm spacing's)

	Cu Finish	With solder	
76x88mm	\$2.00	\$3.00	
153x88mm	\$3.95	\$4.90	Made to order sizes available
310x95mm	\$6.50	\$7.50	

Carbide Tungsten PCB drill bits 1/8th Shank

Carbide drills are easily broken- use steady drill press.

	New	Router bits	
0.8mm	10 pack		Used Drill bits 1000-5000 hits max. \$45.00/25pack. Suitable for hand drilling. Not suitable for highly critical PTH work. (mixed sizes ok)
0.9mm	\$65.00		
1.0mm	Mixed		
1.2mm	Sizes OK		
2mm		\$ 9.45	

We also have 2oz and 3oz FR4 copper clad available.
FR4 in 2mm and 3mm substrate available.

InkJet Film - Specially designed for printing/PCB. Excellent results

A4 - 5 pack	\$ 12.50	Block out unused areas in your printing program
A4 - 10pack	\$ 23.75	using white rectangles to reduce ink usage
Makes a dense black neg or <u>positive</u> . Printer settings guide included.		
Used by screen printers. Great for exposures on our DFP coated board.		

Surplus To Requirement Equipment going cheap:-

Spray etcher - conveyor feed	110v-240v Transformer
Spray Etcher - Panel at a time feed	Plating Rectifier
Huge Waste water tank on stand	Complete PTH Line

1 off heavy duty component bender and cutter plus assembly jig. Cost \$1200, give away @ \$700 ONO. Will split up. Pix available on request.

Prices do not include GST

Payment can be made via: Direct deposit BSB: 802038 Acc: 722677, Cheque, money order. NO Credit card facilities available. Please
advise via email that u have made a deposit to our account.

NB: GST is also added to delivery charges. (Total items+ delivery) +gst on total.

eg. 10 items @2=\$20+delivery \$12=\$32 + gst =\$35.20

Programs to use to create negative from gerbers.
www.mitsi.com/PCB/free%20viewers.htm

Acetronics 02 9600 6832

ACETRONICS 2008 CATALOGUE P3

DIY Vinyl cut signs - Easy application. Comes to you composed, properly spaced on stick and peel tape. You don't have to align each letter individually.

5 year vinyl - POA for 7 & 20yr Vinyl

25mm	50mm	75mm	100mm	200mm	300mm
\$0.50	\$1.05	\$1.50	\$2.20	\$5.75	\$8.25

Base cost \$3.00 plus letter size cost times number of letters.

Min \$15 order. eg 25 letters x 25mm @\$0.50/letter+\$3.00 base=\$15.50

Simple soapy water application. Other letter sizes available. Use for house numbers, labeling, front panels etc etc
Simple email your text as is in MS Word. Ai, Corel Draw or Photoshop (convert text to curves or outlines)

Min letter size: 10mm letters only available in Agency FB Bold font @\$0.25 per letter.

Line Width mm	Line Width Inch	Current Amps
0.5	0.020	3.0
0.8	0.031	3.5
1.0	0.040	4.0
1.25	0.050	5.0
1.6	0.062	6.0
2.5	0.100	9.0
3.2	0.125	10.0
3.8	0.150	12.0
5.0	0.200	15.0
6.0	0.25	17.0

Current Capacity of 1oz Copper Track

Voltage Peak	Spacing mm	Spacing Inch
0-50	0.4	0.015
50-100	0.6	0.025
150-300	1.25	0.05
300-500	2.54	0.100
500+	0.005/W	0.0002/W

Minimum Conductor spacing

Using DFP (photosensitive negative acting laminate)

- 1: Black light tubes should be 50mm away from glass.
- 2: Neg emulsion (or ink) should be in direct contact with photo film on PCB.
- 3: DO NOT remove plastic protective film, otherwise 2x or 3x exposure time.
- 4: Use vacuum frame to clamp down negative onto pcb *if possible*.
- 5: Keep used developer separate from new stuff & use until saturated.
- 6: Check if developed properly by scraping copper surface with knife.
- 7: Use scourer and rub briskly until stubborn film is removed.
- 8: Keep refrigerated. Shelf life 6mnths - 1year or more depending on storage.
- 9: If film is darkish blue before exposure then it is a bit old, see step 7.
- 10: Do not leave in hot car.
- 11: Cut with hacksaw, saw bench or large paper guillotine. Will blunt blades quickly.
- 12: For optimum results drill with carbide tungsten drill bits, needs steady drill press.
- 13: If all else fails, get Acetronics to make them for you!

Briefly, our production capacity

PROTOTYPES - SINGLE SIDED - 2 LAYER - MULTILAYER - FLEXIBLE

Acetronics 02 9600 6832

acetronics@acetronics.com.au

ACETRONICS 2008 CATALOGUE P4

Postage Calculation (see page 2 as well)

[Australia post](#)
[Fastway - local metro areas only](#)

To roughly work out your postage/ courier rates go to above websites, enter in Moorebank/Sydney and your destination and see which is cheaper. We ain't gonna shoot u if u are out by a dollar with delivery charges, but please keep in mind that all prices are subject to change at anytime. To ensure there are no delays, please advise us of your needs and preferred delivery method via email before u send/deposit any monies.

Single Sided		
FR4 1.6mm 1oz		
Weight in gms		
150x75		
150x150		
150x300		
300x300	330	
610x300	660	
FR4 0.8mm 1oz		
150x75		
150x150		
150x300		
300x300		
610x300		

Double sided		
FR4 1.6mm 1/2oz		
Weight in gms		
150x75		
150x150		
150x300		
300x300	320	
610x300	640	
FR4 0.8mm 1/2oz		
150x75		
150x150		
150x300		
300x300	204	
610x300	408	

Use chart to calculate Aust Post rates. Add **\$3.00** for packaging

Single sided PCB manufactured by us (solder finish only):-

All u can fit on panel (410x280mm with 10mm spacing's between artworks) \$120.00
 Extra panels \$50/panel
 4000holes &/or 30pcbs per panel limitation applies.
 1 artwork per panel (no need to step it up, we will do it for u)
 Multiple artworks on panel, add \$15.00 per panel (requires customer setup/step up)

For all other types of PCBs and finishes & production quantities , please request quote.

Prices do not include GST

ACETRONICS 2008 CATALOGUE P5

PCB Production Capacity

Multi layer - 8 layers

Flexible with die cutting

2 Layer (double sided)

CNC Milling

Cut Holes and unusual shapes in:-

Electrical switch plates
Plastic boxes and cases
Front panels etc.

Screen Printing

Print direct onto:-
Boxes/cases
Front panels
Signs

Custom Printing. Excellent Prices on Quality Items

Fridge Magnets business card size only 28cea