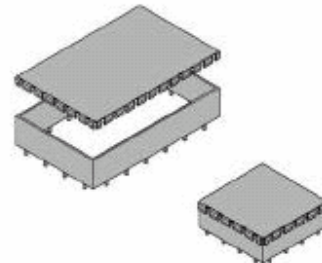


PFL Series: PCB Frame & Fingered Lid

Standard and custom PCB mounting enclosures offering individuality and functionality, ideally suited to board level screening applications where good RFI/EMI attenuation and accessibility are required.

- ◆ **Removable Fingered Lid**
giving easy access and excellent attenuation
- ◆ **PCB Mounting Pins**
hot tinned dipped for solderability
- ◆ **Locking Pins (optional)**
for positive placement & retention (see page 7)
ideal for reflow soldering applications
- ◆ **Internal Dividers (optional)**
for discrete screening within the frame (see page 7)
- ◆ **Custom Sizes**
can be manufactured without tooling charges
making prototypes and low volumes viable
- ◆ **Additional Features**
holes, brackets, cut outs, lid captivation, etc., can be incorporated during manufacture (see back page)
- ◆ **Alternative Materials/Finishes**
copper, brass, tinplate, nickel/bright tin, nickel plate



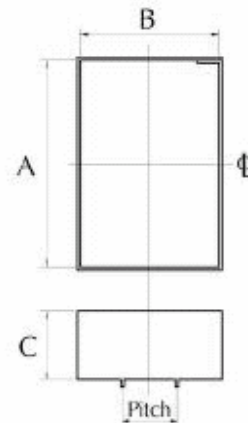
Specification

Material:	Bright steel BS1449 Pl.1 CR4
Frames:	20swg (0.914mm)
Lids:	24swg (0.559mm)
Finish:	Hot Tin Dip 60:40 tin-lead BS219 grade K
Surface resistivity:	$20 \times 10^{-6} \Omega$ per square
Conductivity:	$5 \times 10^4 S$ (mho)
Tolerance:	+/- 0.25mm (general) +/- 0.10mm (PCB pin pitch)
Pin Size:	1mm x 2.25mm

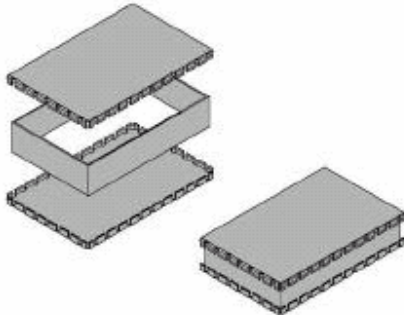
STOCK SIZES - Internal & overall dimensions (mm)

Part No.	Dim. A	Dim. B	Dim. C	Nominal overall size including lid (excluding pins)	Number of Pins	Pin Pitch
PFL1	20	20	10	25 x 25 x 11	4	C/L
PFL11	25	25	10	30 x 30 x 11	4	C/L
PFL5	30	30	15	35 x 35 x 16	8	10.5
PFL12	40	40	15	45 x 45 x 16	8	20
PFL2	50	25	15	55 x 30 x 16	10	10.5
PFL6	50	50	15	55 x 55 x 16	8	20
PFL9	75	50	15	80 x 55 x 16	12	20
PFL3	75	50	25	80 x 55 x 26	12	20
PFL7	75	75	25	80 x 80 x 26	16	20
PFL4	100	50	25	105 x 55 x 26	12	20
PFL8	125	75	25	130 x 80 x 26	20	20
PFL10	160	100	35	165 x 105 x 36	24	20

NOTE: A4 dimensioned drawings for each part are available on request.



FFL Series: Frame & Fingered Lid



Open frame EMI/RFI housings with removeable lids in both standard and custom versions specifically designed for total board screening with excellent attenuation and access to both sides of the PCB.

- ◆ **Removable Fingered Lids**
giving easy access and excellent attenuation
- ◆ **Lid Fingering Clearance**
selective fingers can be omitted for clearance around components mounted through the frame wall
- ◆ **PCB Locations (optional)**
lancings or brackets can be specified to act as guides or supports (see back Page)
- ◆ **Internal Dividers (optional)**
for discrete screening within the frame (see page 2)
- ◆ **Custom Sizes**
can be manufactured without tooling charges making prototypes and low volumes viable
- ◆ **Additional Features**
holes, brackets, cut outs, lid captivation, etc., can be incorporated during manufacture (see back page)
- ◆ **Alternative Materials/Finishes**
copper, brass, tinplate, nickel/bright tin, nickel plate

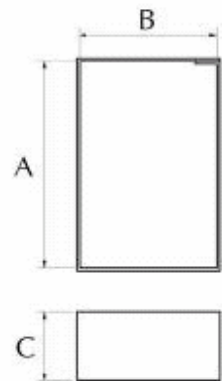
Specification

Material: Bright steel BS1449 Pt.1 CR4
Frames: 20swg (0.914mm)
Lids: 24swg (0.559mm)
Finish: Hot Tin Dip 60:40 tin-lead BS219 grade K
Surface resistivity: $20 \times 10^{-6} \Omega$ per square
Conductivity: $5 \times 10^8 S$ (mho)
Tolerance: \pm %, 0.25mm (general)

STOCK SIZES - Internal & overall dimensions (mm)

Part No.	Dimension A	Dimension B	Dimension C	Nominal overall size including lids
FFL6	20	20	10	25 x 25 x 12
FFL7	30	30	15	35 x 35 x 17
FFL1	50	50	15	55 x 55 x 17
FFL5	75	50	15	80 x 55 x 17
FFL8	75	50	25	80 x 55 x 27
FFL9	75	75	25	80 x 80 x 27
FFL2	100	50	25	105 x 55 x 27
FFL10	125	75	25	130 x 80 x 27
FFL3	160	100	35	165 x 105 x 37
FFL4	220	100	50	225 x 105 x 52

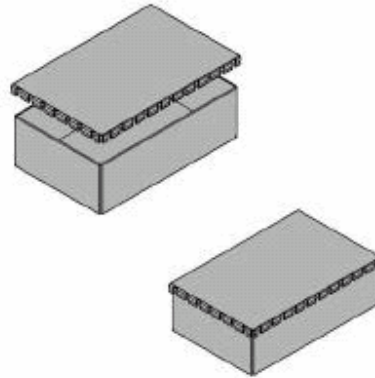
NOTE: A4 dimensioned drawings for each part are available on request.



CFL Series: Can & Fingered Lid

A range of standard and custom RFI/EMI cans that offer good attenuation and accessibility where screening of complete boards or circuits is required.

- ◆ **Removable Fingered Lid**
giving easy access and excellent attenuation
- ◆ **Lid Fingering Clearance**
selective fingers can be omitted for clearance around components mounted through the frame wall
- ◆ **Component/PCB Locations (optional)**
lancings or brackets can be specified to act as guides or supports (see back page)
- ◆ **Butt Jointed Corners**
hot tin dip finish allows corners to be easily soldered for increased screening
- ◆ **Internal Dividers (optional)**
for discrete screening within the can (see page 7)
- ◆ **Custom Sizes**
can be manufactured without tooling charges making prototypes and low volumes viable
- ◆ **Additional Features**
holes, brackets, cut outs, lid captivation, etc., can be incorporated during manufacture (see back page)
- ◆ **Alternative Materials/Finishes**
copper, brass, tinplate, nickel/bright tin, nickel plate



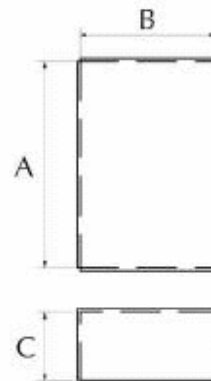
Specification

Material:	Bright steel BS1449 Pt.1 CR4
Frames:	20swg (0.914mm)
Lids:	24swg (0.559mm)
Finish:	Hot Tin Dip 60:40 tin-lead BS219 grade K
Surface resistivity:	$20 \times 10^{-6} \Omega$ per square
Conductivity:	$5 \times 10^4 S$ (mho)
Tolerance:	\pm , 0.25mm (general)

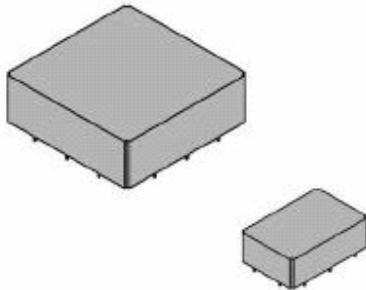
STOCK SIZES - Internal & overall dimensions (mm)

Part No.	Dimension A	Dimension B	Dimension C	Nominal overall size including lid
CFL5	20	20	10	25 x 25 x 12
CFL6	30	30	15	35 x 35 x 17
CFL7	50	25	15	55 x 30 x 17
CFL1	50	50	15	55 x 55 x 17
CFL2	75	50	25	80 x 55 x 27
CFL8	75	75	25	80 x 80 x 27
CFL3	100	50	35	105 x 55 x 37
CFL4	160	100	50	165 x 105 x 52

NOTE: A4 dimensioned drawings for each part are available on request.



PCMC Series: PCB Mounting Cans



Specification

Material/Finish:	Electrolytic Tinplate to BS2920
Thickness:	0.54mm
Surface resistivity:	$20 \times 10^{-6} \Omega$ per square
Conductivity:	5×10^{-5} (mho)
Tolerance:	* / .0.25mm (general) * / .0.10mm (PCB pin pitch)
Pin Size:	1mm x 2.25mm

A low cost range of single piece PCB mounting cans giving good attenuation for applications where board level RFI/EMI screening is required, available in standard or custom options.

- ◆ **PCB Mounting Pins**
tinplate finish for solderability
- ◆ **Locking Pins (optional)**
for positive placement & retention (see next page)
ideal for reflow soldering applications
- ◆ **Butt Jointed Corners**
tinplate finish allows corners to be easily soldered for increased screening
- ◆ **Custom Sizes**
can be manufactured without tooling charges making prototypes and low volumes viable
- ◆ **Additional Features**
holes, cut outs, etc., can be incorporated during manufacture (see back page)
- ◆ **Alternative Materials**
copper, brass, steel, nickel
- ◆ **Alternative Finishes**
bright tin, nickel plate, hot tin dip

STOCK SIZES - Internal & overall dimensions (mm)

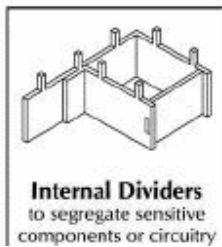
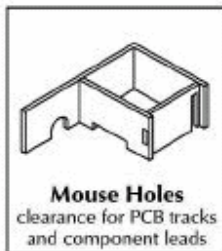
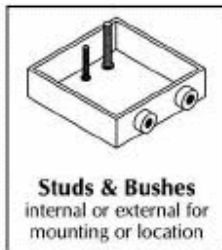
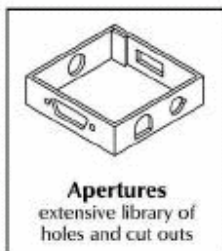
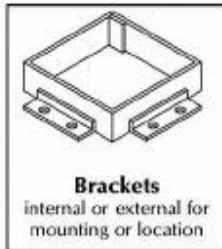
Part No.	Dim. A	Dim. B	Dim. C	Nominal overall size	Number of Pins	Pin Pitch
PCMC1	20	20	15	21 x 21 x 16	4	C/L
PCMC2	25	25	15	26 x 26 x 16	8	10.5
PCMC3	30	25	20	31 x 26 x 21	8	10.5
PCMC4	30	30	15	31 x 31 x 16	8	10.5
PCMC5	40	30	15	41 x 31 x 16	10	10.5
PCMC6	40	35	20	41 x 36 x 21	12	10.5
PCMC7	40	40	15	41 x 41 x 16	8	20
PCMC8	50	50	15	51 x 51 x 16	8	20
PCMC9	60	40	20	61 x 41 x 21	10	20
PCMC10	70	50	25	71 x 51 x 26	10	20
PCMC11	75	75	25	76 x 76 x 26	12	20
PCMC12	100	50	25	101 x 51 x 26	12	20

NOTE: A4 dimensioned drawings for each part are available on request.



Custom Options

DESIGN YOUR OWN ENCLOSURES CHOOSING FROM OUR STANDARD STYLES



STYLE. Specify CFL, FFL, PFL or PCMC (see prev. pages).

DIMENSIONS. Specify length, width & height as internal. Others dimensions from centre lines.

MATERIAL. Options: steel; tin plate; copper; brass; nickel. Specify thickness or gauge.

FINISH. Options: Hot Tin Dip; nickel plate; 6in; zinc.

MOUNTING.
Brackets: specify size and position.
Bushes: specify thread and position.
Studs: specify thread, length and position.

APERTURES. Holes or cut outs. Specify style, size and position. Most component sizes are available as standard.

CORNER OVERLAP. For frames specify corner. Minimum is 5mm. External option available.

INTERNAL DIVIDERS. Specify as required. Can be supplied loose, spot welded or with tabs to mate with slots in wall. Multi compartments can be achieved by a labyrinth of dividers.

PCB LOCATIONS. Lancing can be horizontal or vertical for PCB supports or staggered to act as guides (see diagram).

PCB PINS. Specify size and position. Min. size 0.75mm x 1mm.

EARTH TERMINALS. Specify type, size, and position. Options: push-on/solder tags; studs; earth symbol.

LID FINGERING. Size and style is standard, fingers can be omitted for clearance around through wall components.

MARKING. Alpha numeric 2mm impressed characters available as standard. Also earth symbol. Specify position.

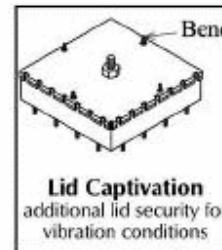
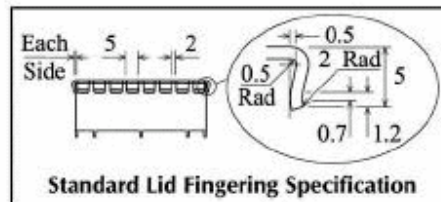
MOUSE HOLES. Walls and dividers can have small cut outs on the edges to clear PCB tracks and component leads.

LANCINGS. For mounting component leads or location points.

LOCKING PIN. Locates and retains enclosure on PCB for soldering (see page 7).

LID CAPTIVATION. Locking devices for additional lid security.

Solder Anti-Migration System - prevents solder creepage

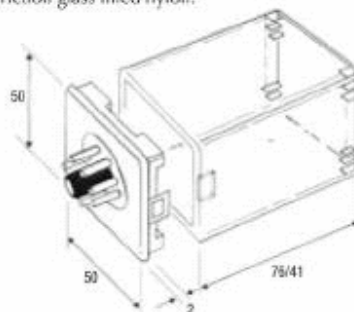




Perancea's enhanced range of eight and 11 pin Plug-In Cases are completely retooled designs and feature product lines revised to meet the current increasing market demand for ex-stock, low cost, high reliability cases. The improved design provides environmental protection for packaging small assemblies in traditional style applications including timers, machine tool cycling, light controllers and control panels in the electronics and electrical industry sectors. The new cases also provide easy plug-in replacements that are fully interchangeable with existing system designs from alternative manufacturers. The 50mm square plug-in cases are available in cover heights of 41 and 76mm. The high impact resistant polycarbonate covers can also be supplied in a wide range of colours for volume applications. The interchangeable case tops simply snap fit on to the pinned bases which are moulded in low friction glass filled nylon.

Tubular brass electrical pins are electro-tinned over a nickel flash for easy wire insertion and solderability. They are manufactured to close tolerances for high reliability and repeated plugging and unplugging. Bases are available in both Octal and B11A (8 & 11 pin) versions to mate with a widely available range of sockets.

For easy assembly the bases and 76mm cover feature moulded-in PCB support guides. A label recess is moulded into the cover top of both sizes. Perancea can, if required, supply the cases in any quantity with holes and cut outs for through wall mounted components such as potentiometers and indicator lights. Perancea is also able to customise case shape and size, depending on volume requirements.



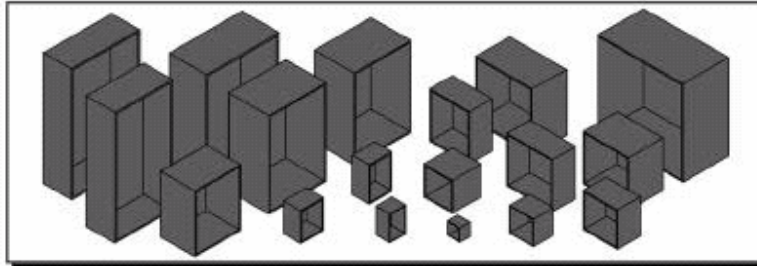
Type No:	Item:	Colour:	Size:
01CCP76	Cover	Clear	76mm
01CBP76	Cover	Black	76mm
01CCP41	Cover	Clear	41mm
01CBP41	Cover	Black	41mm
01BBN08	Base	Black	8 pin
01BBN11	Base	Black	11 pin

In line with our policy of continuous improvement, we reserve the right to make design or product alterations without prior notice.

POTTING/ENCAPSULATION SHELLS

Standard Specification
 Moulded in impact and chemical resistant ABS material.
 PB series - colour Black
 PBF series - colour Grey

Custom Choices
 Moulding material and colour.
 Flame retardant materials.
 Machining holes, cut-outs, etc.
 RFI/EMI shielding.
 Screen Printing.

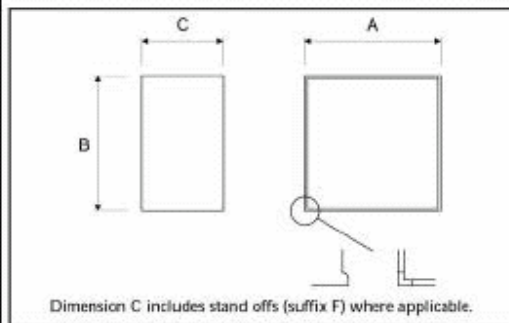


SERIES PB - Nominal external dimensions (mm)

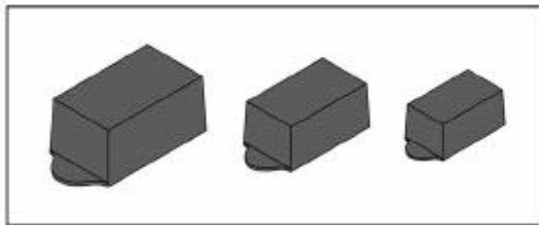
Part No.	Dimension A	Dimension B	Dimension C (see note)	Wall Thickness
PB109BF	11	11	9.0	0.5
PB121B	21	21	17.5	0.5
PB110BF	22	14	12.0	0.5
PB101B	25	20	15.0	1.0
PB112B	25	25	25.0	1.0
PB102B	30	20	15.0	1.0
PB111B	30	30	20.0	1.0
PB103B	40	35	20.0	1.0
PB107B	40	40	20.0	1.0
PB113BF	40	40	30.0	1.0
PB104B	50	40	30.0	1.0
PB108B	50	50	30.0	1.0
PB117B	70	50	35.0	1.0
PB105B	75	50	35.0	1.0
PB114B	75	75	40.0	1.0
PB115B	89	64	32.5	1.5
PB116B	100	50	25.0	1.3
PB106B	100	60	25.0	1.3

Shell Height (Dimension C)

The Shell Height can be reduced by machining at economic cost where the order quantity does not warrant special tooling.

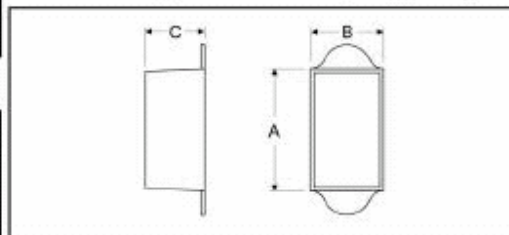


A standard range of boxes designed specifically for the encapsulation of electronic components and assemblies to protect against environmental hazards, vibration, shock, etc. They also offer improved design security and enhance the appearance of the finished product. Moulded in impact and chemical resistant ABS with an attractive fine textured finish (PBF993 gloss) they can easily be machined and printed. The PBF series offer flange mounting. (Also see flanged boxes page 5). Other sizes and materials including Flame Retardant ABS to UL94-VO can be produced to order. (see notes below).



SERIES PBF - Nominal external dimensions (mm)

Part No.	Dimension				Wall Thickness
	A	B	C	A+Flanges	
PBF991G	37	25	19.0	53.0	1.0
PBF992G	51	31	24.0	70.0	1.5
PBF993G	55	42	27.0	75.0	2.0



RFI/EMI SCREENING

We can supply our mouldings with a surface conductive coating to assist in shielding from or limiting the emissions of EMI and RFI.
 Please contact our Sales Desk for further information.

CUSTOM MOULDINGS

Low cost tooling techniques allow us to offer economical pricing for modifications to standard items or for special shapes and sizes.

VACUUM FORMING

Special sizes and shapes of shells can be produced economically in low to medium volume by vacuum forming at minimal tooling cost.
 Please contact our Sales Desk for further information.