
























PCB & Layout

Price see shop.griederbauteile.ch

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Acetate Foil Clear

For graphic arts, printing, overlays and many other applications.
One side matt



Order No	Size	Dimensions	Thickness
PBF	A4	210 x 297mm	0.1mm

Polyester Foil Clear without Grid

Polyester film clear especially suitable for multi layer applications.
Material: hostaphane BN180



Order No	Size	Dimensions
PBG.A2	A2	420 x 594mm
PBG.A3	A3	297 x 420mm
PBG.A4	A4	210 x 297mm


Some vintage components are only available while stock lasts.

Transparent Grid Paper

Transparent paper with blue grid for templates and drafts
 Not true to scale
 Both sides matt



Order No	Size	Grid section	Grid
PBP.250.A3	A3	277 x 400mm	2.50mm/.098"
PBP.250.A4	A4	190 x 277mm	2.50mm/.098"
PBP.254.A3	A3	277 x 400mm	2.54mm/.100"
PBP.254.A4	A4	190 x 277mm	2.54mm/.100"




Transpagra Transparent Grid Foil

Transparent foil with blue grid
 Both sides mat
 True to scale



Order No	Size	Grid section	Grid
PBR.250.A2	A2	400 x 574mm	2.50mm/.098"
PBR.250.A3	A3	277 x 400mm	
PBP.250.A4	A4	190 x 277mm	
PBR.254.A2	A2	400 x 574mm	2.54mm/.100"
PBR.254.A3	A3	277 x 400mm	
PBR.254.A4	A4	190 x 277mm	




Self-Adhesive Precision Tape

Tapes for PCB layout design. Traces between devices on a board are made with these self-adhesive tapes. Extra strong, precision tape. Suitable for direct etching layout, non reflective matt surface.



Order No	Tape width		Bishop-No	Length	Thickness
	metric	inches			
PFB.05	0.51mm	.020"	201-020-11	18.3m	0.127mm/.005"
PFB.16	1.57mm	.062"	201-062-11		
PFB.20	2.03mm	.080"	201-080-11		
PFB.25	2.54mm	.100"	201-100-11		
PFB.32	3.18mm	.125"	201-125-11		
PFB.38	3.81mm	.127"	201-150-11		
PFB.51	5.08mm	.200"	201-200-11		
PFB.63	6.35mm	.250"	201-250-11		
PFB.76	7.62mm	.300"	201-300-11		
PFB.101	10.16mm	.400"	201-400-11		
PFB.127	12.70mm	.500"	201-500-11		
PFB.203	20.32mm	.800"	201-800-11		



Modified PCB Target Symbols

Used as point of reference for manual designed PCB layouts. These transfers are self-adhesive and have a non reflective, matt surface. They are not etch-proof.

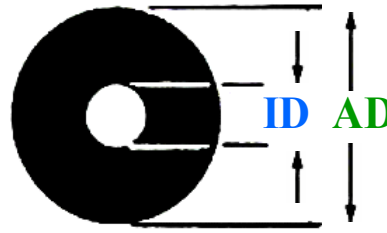


Order No	Number of Target Symbols per		AD		Bishop No
	Package	Stripe (approx)	Metric	Inches	
PFZ.8P	250	20	7.92mm	.312"	4029
PFZ.8S					
PFZ.16P	250	6	15.88mm	.625"	4020
PFZ.16S					
PFZ.25P	250	4	25.4mm	1.000"	4015
PFZ.25S					

Subject to alterations and errors.
 Pictures are a guide only.

Transfer Eyelets

When creating PCB layout artwork, these transfers are ideal to achieve a professional finish. The transfers are simply rubbed on to the target surface.
They can be applied directly to copper clad board or onto transparent foil when a photo process is to be employed to produce PCBs.
These transfers have a non reflective, matt surface.
Size tolerance $\pm 0.002\text{mm}$



Order No	Number of Eyelets per		AD		ID		Bishop No
	Package	Stripe (approx)	Metric	Inches	Metric	Inches	
PFE.16P	500		1.57mm	.062"	0.63mm	.025"	D136
PFE.16S		36					
PFE.20P	500		2.03mm	.080"	0.79mm	.031"	D216
PFE.20S		29					
PFE.51P	500		5.08mm	.200"	1.02mm	.040"	D204
PFE.51S		52					
PFE.63P	500		6.35mm	.250"	1.02mm	.040"	D108
PFE.63S		24					
PFE.76P	500		7.62mm	.300"	1.02mm	.040"	D293
PFE.76S		20					
PFE.101P	500		10.16mm	.400"	1.02mm	.040"	D189
PFE.101S		16					
PFE.127P	500		12.70mm	.500"	1.02mm	.040"	D192
PFE.127S		24					
PFE.152P	500		15.24mm	.600"	1.57mm	.062"	D149
PFE.152S		22					
PFE.203P	500		20.32mm	.800"	1.57mm	.062"	D235
PFE.203S		9					
PFE.254P	500		25.40mm	1.000"	1.57mm	.062"	D131
PFE.254S		7					

Centered Transfer Eyelets

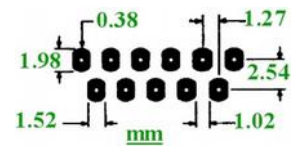
With point centred grid for easy design of rows of land (e.g. for axial connections).



Order No	Stripes per Package	Eyelets per Stripe	AD		ID		Centered Grid Size	
			Metric	Inches	Metric	Inches	Metric	Inches
PFE.R250P	40		1.88mm	.074"	0.38mm	.015"	2.50mm	.098"
PFE.R250S		80						
PFE.R500P	50		3.76mm	.148"	0.76mm	.030"	5.00mm	.196"
PFE.R500S		40						
PFE.R508P	50		3.81mm	.150"	0.78mm	.031"	5.08mm	.200"
PFE.R508S		40						
PFE.R1000P	50		7.52mm	.296"	1.52mm	.060"	10mm	.392"
PFE.R1000S		20						
PFE.R1016P	50		7.64mm	.300"	1.52mm	.060"	10.16mm	.400"
PFE.R1016S		20						

Dual-In-Line Symbols

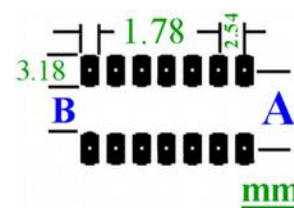
PCB symbol land (transfer symbol) for connectors for indirect mating opaque black, on self-adhesive foil, non etch-proof
For scale 2:1 use the dimensions indicated and multiply them by 2.



Order No	Number of Contacts per		Scale	Description	Bishop No
	Package	Stripe Approx			
PFC.Z1P	7 Stripes with 328 contacts		1:1	Quad-In-Line Connections	6736
PFC.Z1S		328 Contacts	1:1		6736
PFC.Z2P	14 Stripes with 164 contacts		2:1		6740
PFC.Z2S		164 Contacts	2:1		6740

Dual-In-Line-Symbols

These DIL transfer symbols are used for manual PCB art design for integrated circuits.
Opaque black, on self-adhesive foil
Non etch-proof
For scale 2:1 use the dimensions indicated and multiply them by 2.



Order No	Symbols per package	Single Symbols	Row Spacing A		Between Distance B	Number of Poles	Scale
			Metric	Inches			
PFD.163N1P	250		7.62mm	.300"	4.45mm	16	1 : 1
PFD.163N2P	250		15.24mm	.600"	8.90mm	16	2 : 1
PFD.163N2E		1					
PFD.203N1P	250		7.62mm	.300"	4.45mm	20	1 : 1
PFD.203N1E		1	15.24mm	.600"	8.90mm	20	2 : 1
PFD.203N2P	250						
PFD.203N2E		1					
PFD.224N1P	100		10.16mm	.400"	6.99mm	22	1 : 1
PFD.224N1E		1	20.32mm	.800"	13.98mm	22	2 : 1
PFD.224N2P	100						
PFD.224N2E		1					
PFD.246N1P	100		15.24mm	.600"	12.06mm	24	1 : 1
PFD.246N1E		1	30.48mm	1.200"	24.12mm	24	2 : 1
PFD.246N2P	100						
PFD.246N2E		1					
PFD.406N1P	100		15.24mm	.600"	12.06mm	40	1 : 1
PFD.406N1E		1	30.48mm	1.200"	24.12mm	40	2 : 1
PFD.406N2P	100						
PFD.406N2E		1					

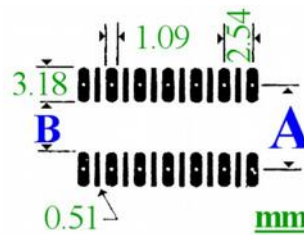
Cut-on Pads with Circuit Traces

These DIL transfer symbols are used for manual PCB art design for integrated circuits.

Opaque black, on self-adhesive foil

Non etch-proof

For scale 2:1 use the dimensions indicated and multiply them by 2.



Order No	Symbols per Package	Single Symbols	Row Spacing A		Between Distance B	Number of Poles	Scale
			Metric	Inches			
PFD.163Z1P	250		7.62mm	.300"	4.45mm	16	1 : 1
PFD.163Z1E		1					
PFD.163Z2P	250		15.24mm	.600"	8.90mm	16	2 : 1
PFD.163Z2E		1					
PFD.246Z1P	100		15.24mm	.600"	12.06mm	24	1 : 1
PFD.246Z1E		1					
PFD.246Z2P	100		30.48mm	1.200"	24.12mm	24	2 : 1
PFD.246Z2E		1					
PFD.406Z1P	100		15.24mm	.600"	12.06mm	40	1 : 1
PFD.406Z1E		1					
PFD.406Z2P	100		30.48mm	1.200"	24.12mm	40	2 : 1
PFD.406Z2E		1					

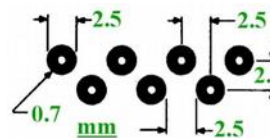
Symbols for VG-Connectors

DIN 41617 is a DIN standard for electrical connectors (VG 95323 connectors) for indirect mating. These PCB symbol land were used for manual PCB art design for these connectors.

Opaque black, on self-adhesive foil

Non etch-proof

Symbols for DIN 41617 Standard Connectors
2.5mm half-dual spacing (.098")



For scale 2:1 use the dimensions indicated and multiply them by 2.

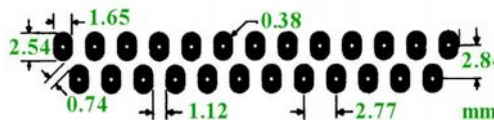


Order No	Number of Contacts per		Scale	Bishop No
	Package	Stripe		
PFC.1P	11 Streifen @ 180 Kontakte		1 : 1	6790
PFC.1S		180 Kontakte		
PFC.2P	22 Streifen @ 90 Kontakte		2 : 1	6791
PFC.2S		90 Kontakte		

**D-Subminiatur-Stecker
Symbole**

2.77mm Mittenabstand (.109")

For scale 2:1 use the dimensions indicated and multiply them by 2.

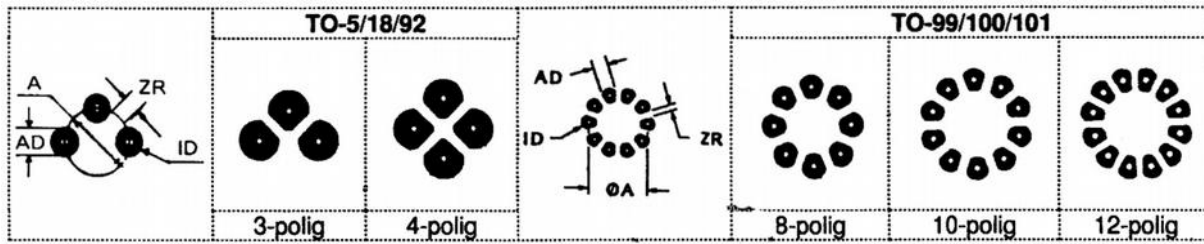


Order No	Number of Contacts per		Scale	Bishop No
	Package	Stripes		
PFC.D1P	7 Stripes with 328 contacts		1 : 1	6838
PFC.D1S		328 Contacts		
PFC.D2P	14 Stripes with 164 contacts		2 : 1	6839
PFC.D2S		164 Contacts		

TO Symbols

PCB transfer symbols for different TO-housing. The transfers are opaque black, on self-adhesive foil. Non etch-proof.

Metric tolerance $\pm 0.002m$

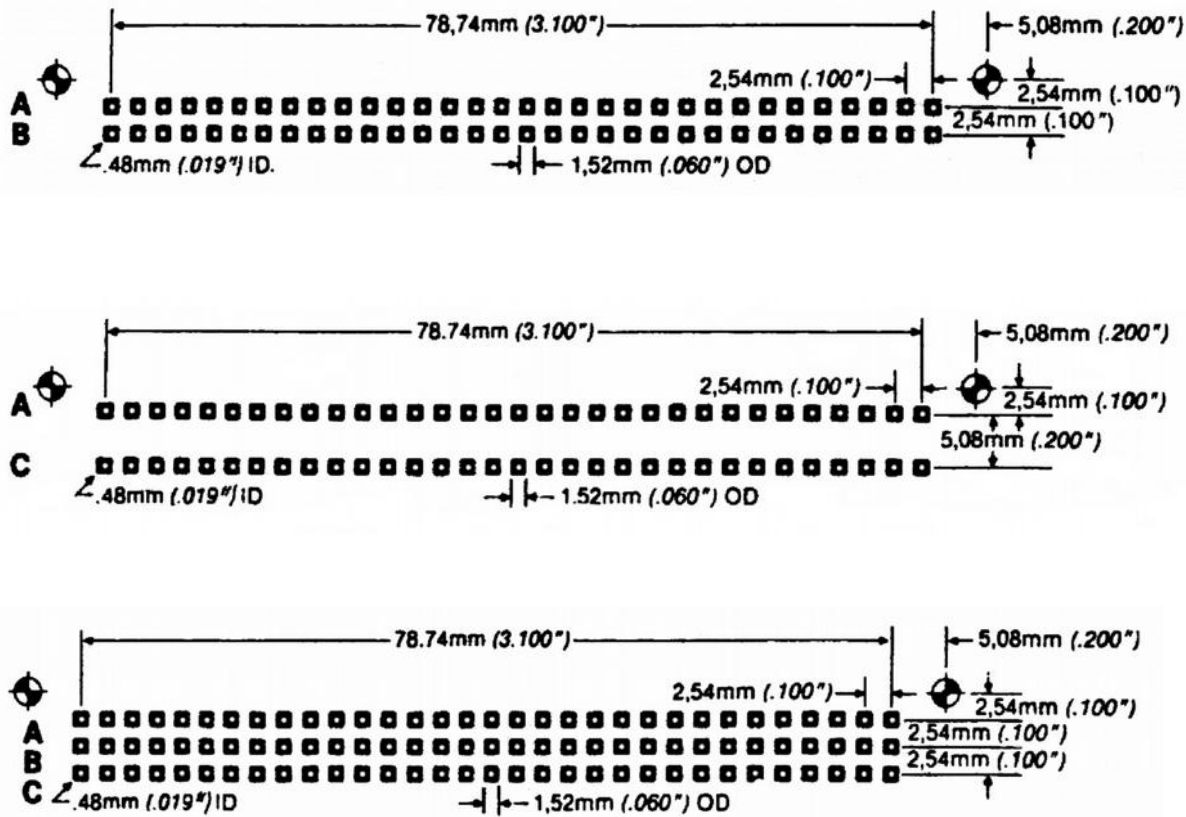


Order No	Number of Contacts per		A	AD	ID	ZR	Suitable	M	Poles
	Package	Stripe							
PFT.13P	250		2.54mm	1.57mm	0.38mm	0.63mm	TO-18 + TO-92	1 : 1	3
PFT.13S		18							
PFT.14P	250		2.54mm	1.57mm	0.38mm	0.63mm		1 : 1	4
PFT.14S		18							
PFT.23P	250		5.08mm	3.14mm	0.76mm	1.26mm		2 : 1	3
PFT.23S		24							
PFT.24P	250		5.08mm	3.14mm	0.76mm	1.26mm		2 : 1	4
PFT.24S		24							
PFT.43P	250		10.16mm	6.34mm	0.76mm	1.58mm	TO-5	2 : 1	3
PFT.43S		16							
PFT.44P	250		10.16mm	6.34mm	0.76mm	1.58mm	TO-5	2 : 1	4
PFT.44S		16							
PFT.28P	250		5.08mm	1.57mm	0.38mm	0.63mm	TO-99, TO-100 TO-101	1 : 1	8
PFT.28S		18							



VG Connector Symbols

DIN 41612 is a DIN standard for electrical connectors that are widely used in rack based electrical systems. PCB symbol land for connectors for indirect mating
 Opaque black, on self-adhesive foil
 Non etch-proof
 Metric tolerance $\pm 0.05\text{mm}$



For the scale 2:1 multiply the specified mass by a factor of 2

According to DIN 41612			2.54mm Center Distance (.100")		
Order No	Number of Symbols per		Plug Type	Scale	Bishop No
	Package	Single Symbols			
PFC.AB1P	40		64-pol (A B)	1 : 1	6869
PFC.AB1E		1			
PFC.AB2P	40		64-pol (A B)	2 : 1	6870
PFC.AB2E		1			
PFC.AC2P	40		64-pol (A C)	2 : 1	6882
PFC.AC2E		1			
PFC.ABC1P	40		64-pol (A B C)	1 : 1	6871
PFC.ABC1E		1			
PFC.ABC2P	40		64-pol (A B C)	2 : 1	6872
PFC.ABC2E		1			

Photo-Positive Coated Boards

Photo-positive coated boards which the portion of the photoresist that is exposed to light becomes soluble to the photoresist developer. The portion of the photoresist that is unexposed remains insoluble to the photoresist developer.



Order No	Material		Lamination (35µm Cu)	Dimensions
PHP.100x160	1.5mm	Phenolic resin paper FR2-1650	one sided	100 x 160 x 1.5mm
PEG.D100x160	0.5mm	Epoxy-glass laminate FR-4	one sided	100 x 160 x 0.5mm
PEG.100x160	1.5mm		one sided	100 x 160 x 1.5mm
PEG.160x233	1.5mm		one sided	160 x 233 x 1.5mm
PEG.300x400	1.5mm		one sided	300 x 400 x 1.5mm
PEG.500x500	1.5mm		one sided	500 x 500 x 1.5mm
PDG.D500x500	0.5mm		double sided	500 x 500 x 0.5mm
PDG.100x160	1.5mm		double sided	100 x 160 x 1.5mm
PDG.375x500	1.5mm		double sided	375 x 500 x 1.5mm

Copper Clad Boards



Order No	Material		Lamination (35µm Cu)	Dimensions
PFX.150	0.8mm	Epoxy-glass laminate FR-4	one sided	100 x 160 x 0.8mm
PFX.375	0.8mm		one sided	150 x 250 x 0.8mm
PFV.150	1.5mm		one sided	100 x 160 x 1.5mm
PFV.375	1.5mm		one sided	150 x 250 x 1.5mm
PFW.150	1.6mm		double sided	100 x 160 x 1.6mm

Hartened Paper Board without Lamination



Order No	Material		Dimensions
PET.150		Hartened Paper	100 x 150 x 4mm

Etch-Resistant Pen edding 2000

Black, waterproof, etch resist, for PCB making

Method: Drawing of layout directly onto the clean copper clad board, drying time min 20 minutes. After the drying time the board can be etched and then rinsed with water. The PCB is ready. Because this type of making a PCB is non-reproducible this method is only recommended for single PCBs like prototypes.



Order No	Colour
PFF	black

Exposure Lamp Photocrescenta E27 75W 230V PF603

Photocrescenta lamps have an internal white coating, which emits diffused, very uniform light at high luminous output. These lamps can be used for exposure of photo positive coated boards



Order No	Power	Voltage	Base Thread
PBL	75W	240V	E27

Developer

This solution is used as developer for photo-positive coated boards and boards covered with POSITIV 20 spray. The solution can be used till depletion.

Poisonous category 3, please pay attention to warning (If you don't understand the warning, translate it in your language with Google)

Application: 1 part developer to 3 parts of water

Order No	Content
PBE	500ml in Plastic Bottle



Natriumpersulfat 200g

Ätzmittel zur Herstellung von Leiterplatten ergibt 1 Liter gebrauchsfertige Lösung

Gefahrenhinweise (R-Sätze):
 R 8 Feuergefahr bei Berührung mit brennbaren Stoffen.
 R 22 Gesundheitsschädlich beim Verschlucken.
 R 36/37/38 Reizt die Augen, Atmungsorgane und die Haut.
 R 42/43 Sensibilisierung durch Einatmen und Hautkontakt möglich.

Sicherheitsratschläge (S-Sätze):
 S 22 Staub/nicht einatmen.
 S 24 Berührung mit der Haut vermeiden.
 S 26 Bei Berührung mit den Augen sofort mit Wasser abspülen und Arzt konsultieren.
 S 36/37/39 Bei der Arbeit geeignete Schutzkleidung, Schutzhandschuhe und Schutzbrille/Geschichtsschutz tragen.
 S 45 Bei Unfall oder Unwohlsein sofort Arzt zuziehen (wenn möglich, dieses Etikett vorzeigen).

Grieder Elektronik Bauteile AG
 Reusstrasse 62
 4450 Sissach Tel. 061 976 95 95



Sodium Persulfate Etching Powder

Sodium persulfate (caustic soda) is used in printed circuit board manufacturing to develop exposed, photopositive coated plates.

The full etching force unfolds between 45 and 50 degrees Celsius.

Upon cooling, the solution remains recrystallized to below 0 degrees.

The sodium persulfate is supplied in powder form. When applied, it gives a clear solution that does not smell and does not develop dangerous fumes. The solution can be used multiple times.

Material: Sodium persulfate (caustic soda) (Na₂S₂O₈)

(If you don't understand the warning, translate it in your language with Google)

Order No	Weight
PFA.NPS	200g
PFA.NPS1K	1kg
PFA.NPS2K	2kg



Natriumhydroxid 1.6% Soude caustique 1.6% 500ml

Zum Entwickeln von fotobeschichteten Printplatten: Gebrauchsfertige Lösung.

Pour révéler des plaques photosensibles: Usage non dilué.

Gefahrenhinweise (R-Sätze):
 R 36/38 Reizt die Augen und die Haut.

Sicherheitsratschläge (S-Sätze):
 S 2 Darf nicht in die Hände von Kindern gelangen.
 S 46 Bei Verschlucken sofort ärztlichen Rat einholen und Verpackung oder Etikett vorzeigen.
 S 60 Dieser Stoff und sein Behälter sind als gefährlicher Abfall zu entsorgen.

Risques particuliers (phrases R):
 R 36/38 Irritant pour les yeux et la peau.

Conseils de prudence (phrases S):
 S 2 Conserver hors de portée des enfants.
 S 46 En cas d'ingestion, consulter immédiatement un médecin et lui montrer l'emballage ou l'étiquette.
 S 60 Eliminer le produit et son récipient comme un déchet dangereux.

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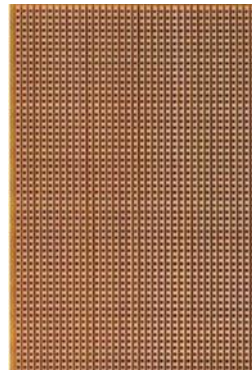


Environmental Protection
 Saturated etchants and used up developers must not be disposed of in the sewage system. They are to be treated as special waste.



Prototyping Board RE520 (single sided)

Single-sided 35 µm Cu
Hot air levelling (HAL-leadfree)
Hole spacing 2.54 x 2.54 mm
38 continuous strips with 61 holes
Hole diameter 1.00 mm
Connector 32/64/96-channel DIN 41612 grid 2.54 mm type C
RoHS compliant

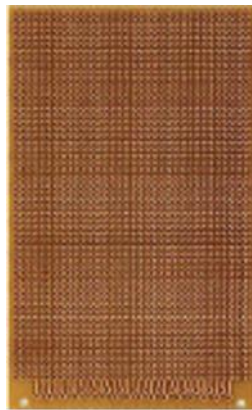


Order No	Thickness	Material	Finish
PUV.100x160HP	1.5mm	Phenolic resin paper FR2	Coated with solder coating
PUV.100x160GE	1.5mm	Epoxy fibre-glass FR4	Roller tinned



Prototyping Board RE 220 (single sided)

Single-sided 35 µm Cu
Hot air levelling (HAL-leadfree)
Hole spacing 2.54 x 2.54mm
37 x 58 soldering pads 2.00 mm Ø
Hole diameter 1.11mm
Connector 31-channel DIN 41617
RoHS compliant



Order No	Thickness	Material	Finish
PUV.220HP	1.5mm	Phenolharz-Hartpapier FR2	Coated with solder coating
PUV.220GE	1.5mm	Epoxy fibre-glass FR4	Roller tinned



Prototyping Board RE 320 (single sided)

Single-sided 35 µm Cu
Hot air leveling (HAL-leadfree)
Hole spacing 2.54 x 2.54mm
37 x 53 soldering pads 2.00 mm Ø
Hole diameter 1.11mm
Connector 32/64/96-channel DIN 41612 type C
RoHS compliant



Order No	Thickness	Material	Finish
PUV.320HP	1.5mm	Phenolic resin paper FR2	Coated with solder coating
PUV.320GE	1.5mm	Epoxy fibre-glass FR4	Roller tinned



Prototyping Board with 3 Strip Grid

Single-sided 35 µm Cu
 Material: FR2 (pentinax)
 Hole distance: 2.54mm
 Diameter of holes: approx 1mm
 Thickness of board: approx 1.5mm
 Dimensions of board: 100x 160mm
 Make: Kemo
 EAN 4024028070254



Order No	Thickness	Material
BKM.E013	1.5mm	SRBP FR2



Laborkarte RE330 (einseitig)

Beschreibung: 36 x 44 Lötinseln, 2x Steckverbinder 32/64/96-pin DIN 41612 Bauform C, mit Bestückungsdruck auf Bauteilseite
 Rastermass: 2.54mm
 Lochdurchmesser: 1mm
 Kaschierung: einseitig, 35µm Cu kaschiert
 Abmessungen: 100mm x 160mm x 1.5mm

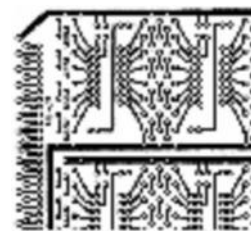


Best.Nr.	Platten-Dicke	Material	Finish
PUV.330GE	1.5mm	Epoxyd-Glashartgewebe FR4	walzverzinkt



Verdrahtungsplatte RE 420 (einseitig)

Beschreibung: Steckverbinder 31-polig DIN 41617, 8x 16-pol IC-Fassungen
 Lochraster: 2.54mm
 Lochdurchmesser: 1mm
 Kaschierung: einseitig, 35µm Cu kaschiert
 Abmessungen: 100mm x 160mm x 1.5mm



Best.Nr.	Platten-Dicke	Material	Finish
PUV.420HP	1.5mm	Phenolharz-Hartpapier FR2	Lötlack beschichtet
PUV.420GE	1.5mm	Epoxyd-Glashartgewebe FR4	walzverzinkt



Prototyping Board RE 321 (single sided)

Single-sided 35 µm Cu
Plated through holes (PTH)
Hot air leveling (HAL-leadfree)
Hole spacing 2.54 x 2.54 mm
36 x 55 soldering pads 2.00 x 2.20mm
Hole diameter 1.00 mm
Connector 32/64/96-channel DIN 41612 grid 2.54 mm type C



Best.Nr.	Platten-Dicke	Material	Finish
PUV.321GE	1.5mm	Epoxy fibre-glass FR4	Roller tinned



SMD-Laborkarte RE 435

Single-sided 35 µm Cu
Plated through holes (PTH)
Surface chem. Sn
SMD hole spacing 1.27 x 1.27 mm
39 x 59 soldering pads 1.00 x 1.00 mm
Hole diameter 0.30mm



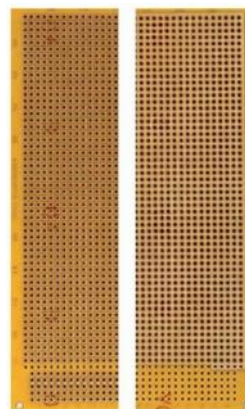
Order No	Thickness	Material	Finish
PUV.435GE	0.7mm	Epoxy fibre-glass FR4	Roller tinned



Prototyping Boards (double sided)

Prototyping Board RE 201 (double sided)

Double-sided 35 µm Cu
Not plated through holes (NPTH)
Hot air levelling (HAL-leadfree)
Hole spacing 2.54 x 2.54mm (34 x 54 soldering pads 2 x 2mm)
Hole diameter 1mm
Connector 32/64/96-channel DIN 41612 type C
The component side is totally laminated by copper
No conducting connection to the component side by etched free holes
If the copper coating is grounded, the electrical components are optimally shielded against the solder side
By this HF, digital and analogue circuits can be built up with high reliability



Order No	Thickness	Material	Finish
PUV.201GE	1.5mm	Epoxy fibre-glass FR4	Roller tinned
PUV.201HP	1.5mm	Phenolic resin paper FR2	Coated with solder coating



SMD-Bread Board RE 436 (double sided)

Double-sided 35 µm Cu
Plated through holes (PTH)
Surface chem. Sn
SMD hole spacing 1.27 x 1.27 mm
39 x 59 soldering pads 1.00 x 1.00 mm
Hole diameter 0.30mm
Dimension board: 100mm x 160mm x 1.5mm

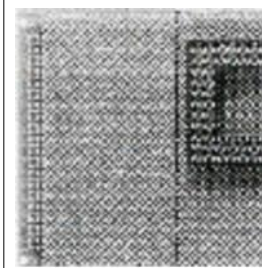


Order No	Thickness	Material	Finish
PUV.436GE	1.5mm	Epoxy fibre-glass FR4	Roller tinned



PGA-Prototyping Board RE 440 (double sided)

Double-sided 35 µm Cu
Plated through holes (PTH)
Hot air leveling (HAL-leadfree)
Surface with soldering stop mask
Staggered hole grid 2.54 x 2.54mm, thus duplication of the borings (interstitial)
Soldering pads 1.4mm Ø
4304 holes 0.8mm Ø
Particularly appropriate for PGA sockets in staggered grid 2.54 x 2.54mm
Connector 32/64/96-channel DIN 41612 type C
Working temperature max. 150°C
Solder bath proof: 260°C > 50 Sec.



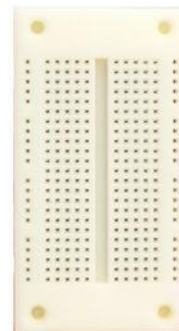
Order No	Thickness	Material	Finish
PUV.440PGA	1.5mm	Epoxy fibre-glass FR4	Roller tinned



Bread Boards

Solderless Breadboard (270 Tie-point) EIC-301

Tie-points: 270
Dimensions: 84 x 45 x 8.5mm

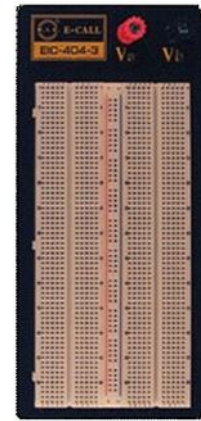


Order No
PGL.301



Solderless Breadboard (1380 Tie-point) EIC-404-3

Solderless Breadboard (1380 Tie-point) EIC-404-3
 Material: ABS plastic colour printed, alu plate
 2 Terminal strips, 1280 tie-point
 1 Distribution strip, 100 tie-point
 2 Binding posts
 Dimensions: board 165 x 80.8 x 8.5mm
 Dimensions: metal plate 215 x 100 x 0.8mm

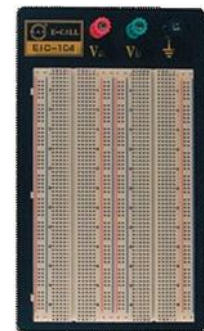


Order No
PGL.404



Solderless Breadboard (1660 Tie-point) EIC-104

Material: ABS plastic colour printed, alu plate
 2 Terminal strips, 1260 tie-point
 4 Distribution strips, 100 tie-point
 3 Binding posts
 Dimensions: board 165 x 110 x 8.5mm
 Dimensions: metal plate 215 x 130 x 1.2mm



Order No
PGL.104



Jump Wires for Solderless Breadboards

Pre-cut jump wires are a great convenience for using with a solderless bread board. They are pre-cut, pre-stripped and pre-formed. The wire ends are stripped 1/4 inch and bent 90°. The coloured insulation indicates the length of the wire.

Order No	Content Package	Wire Length	Colour
PGL.KS02	200	5.08mm	red
PGL.KS03	200	7.62mm	orange
PGL.KS04	200	10.16mm	yellow
PGL.KS05	200	12.70mm	green
PGL.KS06	150	15.24mm	blue
PGL.KS07	150	17.78mm	purple
PGL.KS08	150	20.32mm	grey
PGL.KS09	150	22.86mm	white
PGL.KS10	100	25.40mm	brown
PGL.KS20	100	50.80mm	red
PGL.KS30	75	76.20mm	orange
PGL.KS40	75	101.60mm	yellow
PGL.KS50	75	127.00mm	green



Jump Wire Kit 25 Pieces each of 14 Different Length

Jump Wire Kit 25 Pcs each of 14 Different Length
 Pre-cut jump wires are a great convenience for using with a solderless breadboard. They are pre-cut, pre-stripped and pre-formed. The wire ends are stripped 1/4 inch and bent 90°. The coloured insulation indicates the length of the wire.
 RoHS-compliant



Order No
PGL.KS350

