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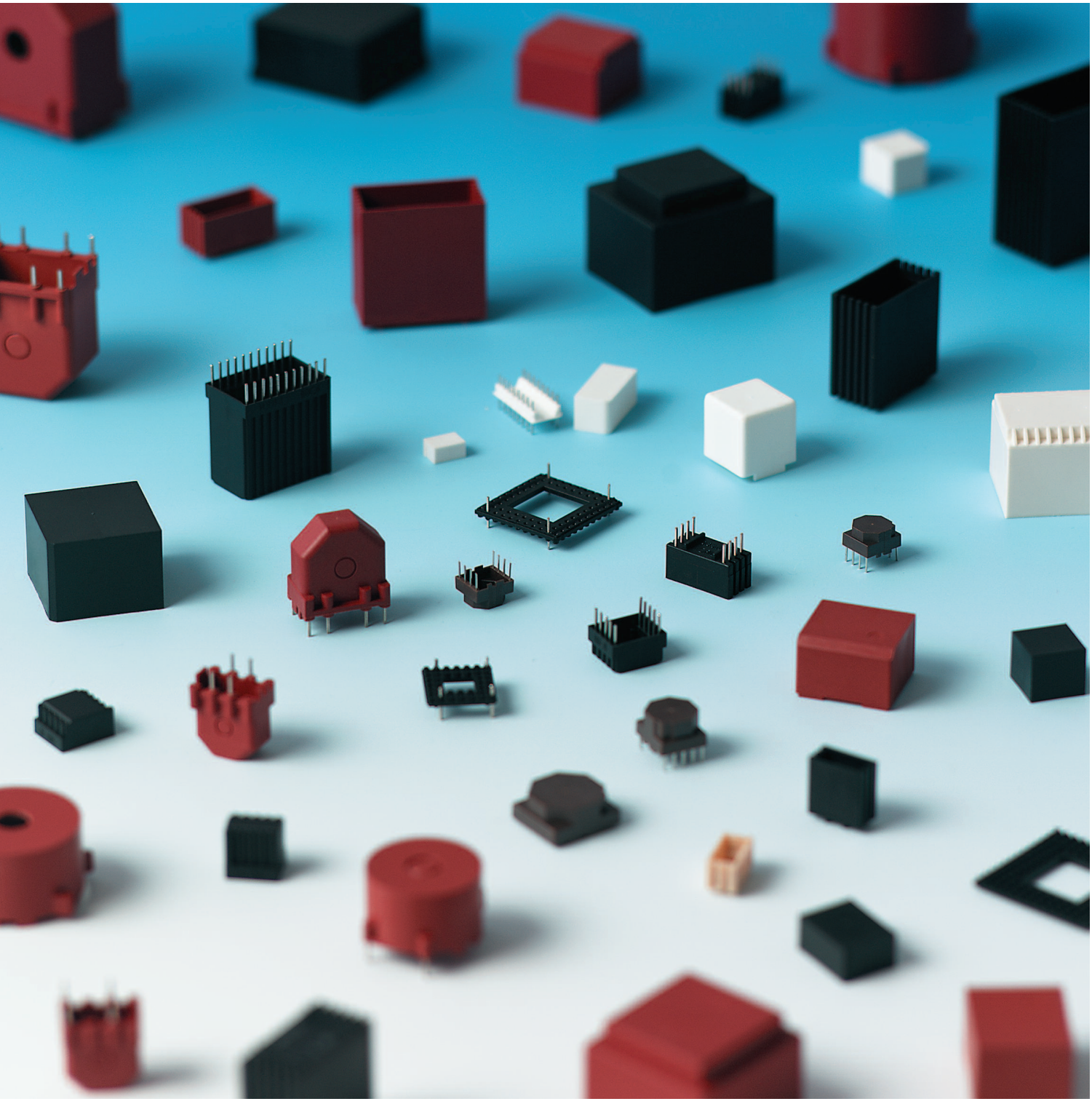
NORWE®

Boxes for toroidal cores and electronic components



This catalogue contains information on boxes for toroidal cores and electronic components

The NORWE manufacturing programme contains a large range of boxes – with different pinning methods – suitable for potting electrical and electronic components. We supply components made in high quality thermoplastics, matching your production requirements.

Our extensive range of modular tooling allows almost unlimited constructive changes to customers specification, often by simple changes of tool inserts. In addition, our modular tooling system allows short tooling times, and is also cost-effective.

All dimensions in mm/inch.
The permissible deviations according to DIN 16901 apply as tolerances.

Should you need further assistance, be it technical or to assist when planning your order, we look forward to hearing from you.

Fully pinned boxes are – in small quantities – available from stock. We can also quote for boxes with pins fitted to your requirements. All lead-times are relatively short.

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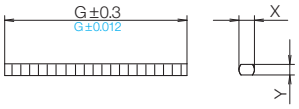
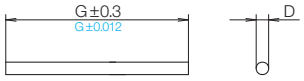
Solder-pins / -tags used for boxes

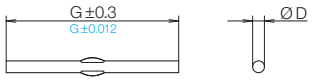
The solder-pins matched to the boxes are listed below. The material used is tin bronze, tinned.
Further standard types are listed in our catalogue “Stamped and Pressed Components for Electronic Applications”.
(Special materials and designs on request, dimensions in mm/inch).



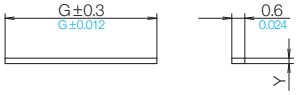
Type	Code	G	X	Y
z8				
z808/ua	73294-212	8.0 / 0.315	0.88 / 0.035	0.60 / 0.024
z809/ua	73295-212	9.0 / 0.354	0.88 / 0.035	0.60 / 0.024
z810/ua	73296-212	10.0 / 0.394	0.88 / 0.035	0.60 / 0.024
z1				
z111/ua	73321-212	11.0 / 0.433	1.10 / 0.043	0.75 / 0.030
z112/ua	73322-212	12.0 / 0.472	1.10 / 0.043	0.75 / 0.030



Type	Code	G	D
r8			
r811/ua	77311-212	11.0 / 0.433	0.80 / 0.031
r813/ua	77313-212	13.0 / 0.512	0.80 / 0.031
r816/ua	77316-212	16.0 / 0.630	0.80 / 0.031
r819/ua	77319-212	19.0 / 0.748	0.80 / 0.031
r821/ua	77321-212	21.0 / 0.827	0.80 / 0.031
r824/ua	77324-212	24.0 / 0.945	0.80 / 0.031
r826/ua	77326-212	26.0 / 1.024	0.80 / 0.031
r831/ua	77331-212	31.0 / 1.220	0.80 / 0.031
r836/ua	77336-212	36.0 / 1.417	0.80 / 0.031
r841/ua	77341-212	41.0 / 1.614	0.80 / 0.031



Type	Code	G	D
m6			
m610/ua	70118-212	10.0 / 0.394	0.60 / 0.024



Type	Code	G	Y
f6			
f625-70/ub	75870-213	7.0 / 0.276	0.25 / 0.010
f640-70/ub	75970-213	7.0 / 0.276	0.40 / 0.016

Type	Code		G	X
s5				
s5/wd	N0350-261	on request	8.8 / 0.346	0.40 / 0.016

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Thermoplastic Materials

The following survey contains supplementary information on the different thermoplastic-qualities.
The material quality orientates to the conventional use of the components. For technical reasons alternative materials cannot be used for all articles.
Consult our qualified specialists regarding your individual material requests – we will be pleased to check whether your material requirements can be realized.
Further information on the materials can also be obtained from our homepage (e.g. to call up the UL cards).

NORWE Mat.-Code	NORWE Mat.-Description	Chemical Symbol	Tradename, Manufacturer	UL-File-No.	Flammability Rating acc. UL 94	RTI Elec acc. UL
024	p6g	PA66 Polyamide 66	PA66 30% GF black Compound	–	–	(+125° C)
047	pcg	PBT Polybutylene Terephthalate	B4225 Pocan Lanxess AG	E 245249	V-0 (1.50)	+130° C
106	A RV250 nat.	PA66 Polyamid 66	Radiflam A RV250 AF RADICINOVACIPS SPA	E116324	V-0 (0.75)	+100° C
132	torA504	PPS Polyphenylensulfid	A504X90 natur Torelina Toray Industries Inc	E41797	V-0 (0.28)	+ 130° C
134	CR-A3H2G6,black	PA66 Polyamide 66	Creamid A3H2G6S *9200 black Creamid, PTS GmbH	–	–	(+110° C)
181	A3X2G10	PA66 Polyamide 66	A3X2G10 Ultramid BASF AG	E 41871	V-0 (1.50)	+115° C
243	Zen.6130L, black	LCP Liquid Crystal Polymer	6130L black Zenite TICONA	E 344082	V-0 (0.38)	+240° C
417	x2g5/m25	PA66 Polyamide 66	A3X2G5 Ultramid BASF AG	E 41871	V-0 (0.81)	+120° C

Explanations on the above survey of materials:

NORWE Mat.-Code . . . . . designates the number NORWE fixed for the material.
NORWE Mat.-Description . . . . . names the NORWE-abbreviation for the material.
Chemical Symbol . . . . . classifies the chemical product group of the material.
Tradename . . . . . designates the product name or trade name fixed by the manufacturer.
Manufacturer . . . . . name of manufacturer.
UL-File-No. . . . . material quality tested and certified with respect to safety and fflammability. The manufacturers of certified and approved products receive a so-called recognition card (yellow card) in which the product qualities are listed in detail. You find all relevant yellow cards – also called UL cards – for different material qualities on our website www.norwe.de or can obtain them from us. You can call up all relevant yellow cards – also called UL cards – for different material qualities just by clicking on the respective UL-file-number.
Flammability Rating acc. UL . . . . determines the flammability of plastic materials based on burning tests in accordance with UL 94 considering the wall thickness of the material.
RTI (Elec.) . . . . . Relative Temperature Index according to UL 746 B. The specified temperatures are valid vor long-range electrical load (Elec).

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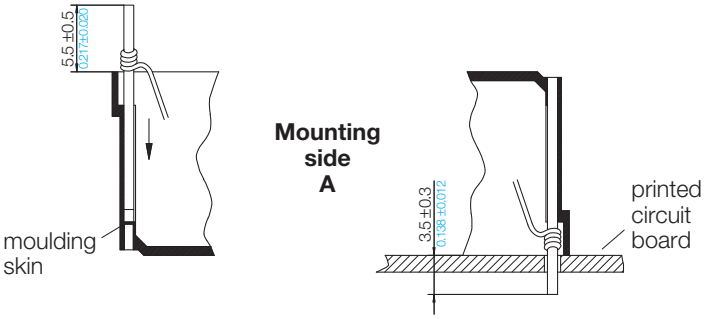
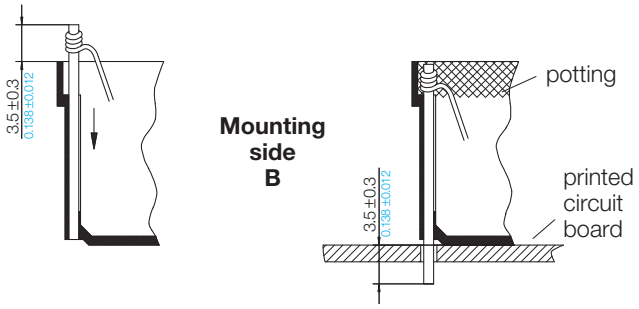
Mounting side vertical potting box (VB) / horizontal potting box (HB) (can be chosen)

All pinholes which are not utilized are sealed to the inside of the box by a moulding skin. Boxes are delivered, as requested, in side A or B.
If there are no specific instructions, side A will be supplied.



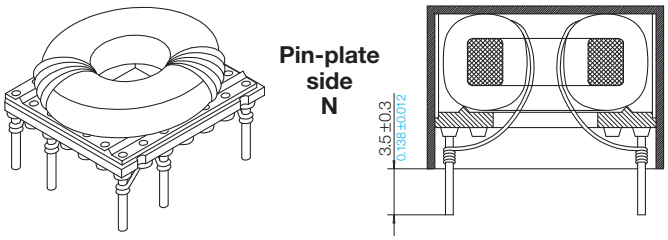
Mounting side A
= for closed box mounting, the surface of the box can be stamped.
Protruding pin-length from potting side 5.5 ±0.5 mm / 0.217 ±0.020 inch



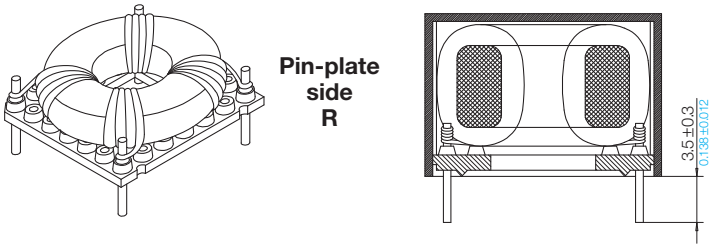
Mounting side B
= for open box mounting, full potting is possible.
Protruding pin-length from potting side 3.5 ±0.3 mm / 0.138 ±0.012 inch

Mounting side pin-plate (RK-LP)

Depending on your requirements the pins can be fitted on side N or R.
If there are no specific instructions, the pin-plates will be supplied with pinning on side N.



Pin-plate pinned side N, suitable for a wire guidance through the centre hole which allows an easy – also automatic – soldering of the wires.



Pin-plate pinned side R, allows the winding of components on the inside, when making optimum use of the height. Thus the pcb-side of the pins is not influenced by the soldering process.

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