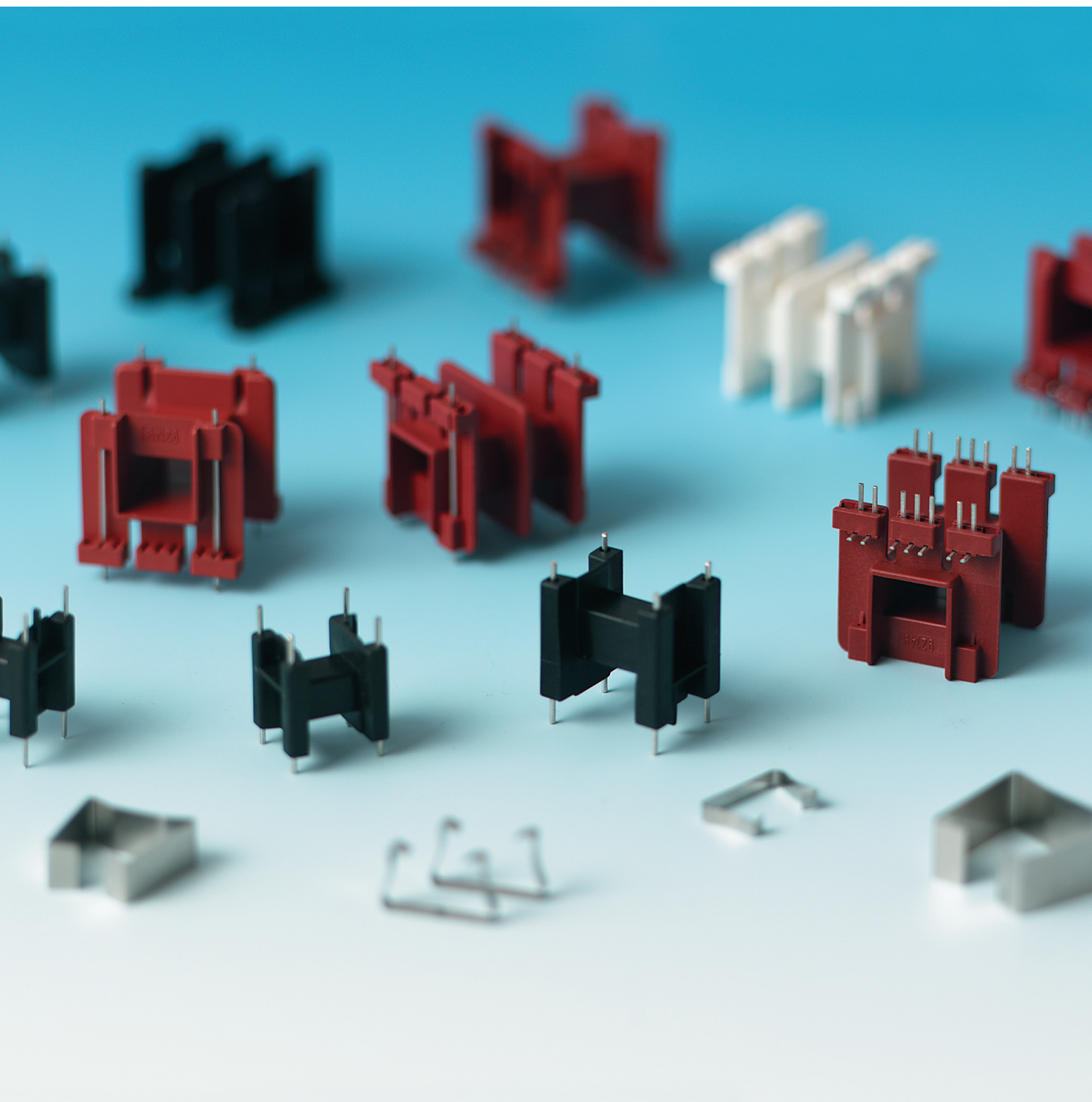


Components for Power Conversion **U-Series**



This catalogue contains information on all our products of the U-Series

Transducers with U-ferrites are used in power or pulse applications, high voltage transducers and TV's.

We supply coilformers made in high quality plastics, matching your production requirements.

Our extensive range of modular tooling allows almost unlimited constructional changes to meet customers specification, often by simple changes of tool inserts. In addition the modular tooling system allows extremely short tooling times and can be very cost-effective.

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

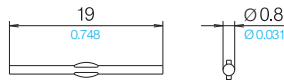
Should you need further assistance, be it technical or to assist when planning your order, we look forward to hearing from you.

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



Solder-pins used for U class coilformers

The solder-pins matched to the coilformers 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).



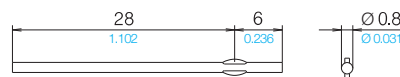
Solder-pin m819/ua (7 0 1 8 7 - 2 1 2)



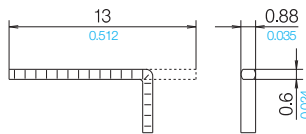
Solder-pin m125/ua (7 0 1 7 6 - 2 1 2)



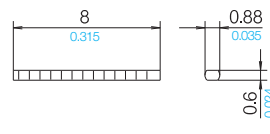
Solder-pin m129/ua (7 0 1 7 7 - 2 1 2)



Solder-pin m82806/ua (7 0 1 8 0 - 2 1 2)



Solder-pin h813/ua (7 3 4 9 9 - 2 1 2)



Solder-pin z808/ua (7 3 2 9 4 - 2 1 2)



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
009	p6g nat.	PA66 Polyamide 66	AKV30H nature Durethan Lanxess AG	E 245249	HB (0.75)	+125°C
017	x2g5	PA66 Polyamide 66	A3X2G5 Ultramid BASF AG	E 41871	V-0 (0.81)	+120°C
024	p6g	PA66 Polyamide 66	PA66 30% GF black Compound	–	–	(+125°C)
106	Radif. 25,n.	PA66 Polyamid 66	Radiflam A RV(d)AF(k) RADICINOVACIPS SPA	E116324	V-0 (0.75)	+100°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
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 flammability. 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 for long-range electrical load (Elec).

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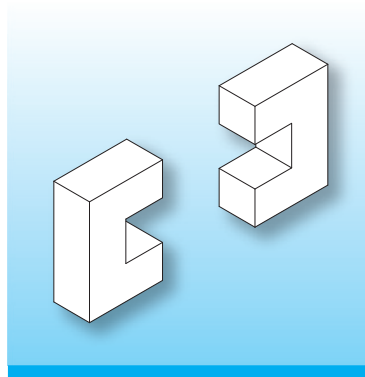
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U-Ferrite Cores

The tables below show the dimensions of the ferrite cores for the coilformers shown in this catalogue. The data can be used as an orientation in the design of application specific converters.



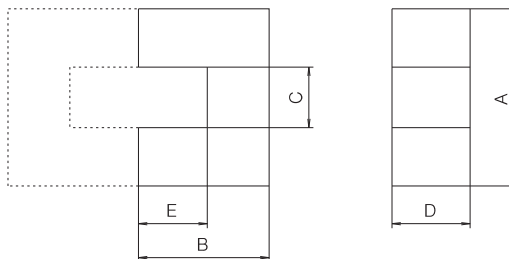
Specific details on the ferrite cores and materials should be available from the catalogues of the ferrite manufacturers.

Dimensions in mm/inch.

Magnetic Characteristics per set	I/A mm ⁻¹	l _e mm	A _e mm ²	A _{min} mm ²	V _e mm ³
U 10/8/3	4.75 0.187	38.4 1.512	8.4 0.013	8.0 0.012	323 0.020
U 15/11/6	1.50 0.059	48.0 1.890	32.3 0.050	32.0 0.050	1540 0.094
U 20/16/7	1.24 0.049	68.0 2.677	56.0 0.087	55.0 0.085	3740 0.228
U 25/20/13	0.82 0.032	86.0 3.386	105.0 0.163	100.0 0.155	9030 0.551

I/A – magnetic core factor
l_e – effective length
A_e – effective area
A_{min} – minimum area
V_e – effective volume

Type	A	B	C	D	E
U 10/8/3	10.1 ± 0.1 0.398 ± 0.004	8.2 – 0.2 0.323 – 0.008	4.15 ± 0.1 0.163 ± 0.004	2.9 ± 0.1 0.114 ± 0.004	5.0 + 0.3 0.197 + 0.012
U 15/11/6	15.2 ± 0.7 0.598 ± 0.028	11.2 ± 0.5 0.441 ± 0.020	5.20 ± 0.3 0.205 ± 0.012	6.7 – 0.5 0.264 – 0.020	5.9 + 0.5 0.232 + 0.020
U 20/16/7	20.8 ± 0.6 0.819 ± 0.024	15.9 – 0.6 0.626 – 0.024	6.30 ± 0.3 0.248 ± 0.012	7.7 – 0.6 0.303 – 0.024	8.0 + 0.6 0.315 + 0.024
U 25/20/13	24.8 ± 0.7 0.976 ± 0.028	20.0 – 0.2 0.787 – 0.008	8.20 ± 0.3 0.323 ± 0.012	13.0 – 0.5 0.512 – 0.020	11.0 + 0.5 0.433 + 0.020



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