

TA Series - HF Antenna Matching Transformers

The TA series of transformers are rugged and lightweight, ideal for inclusion in portable HF antenna systems. Combinations of power rating and impedance transformation ratio provide the antenna designer with a wide selection of units to complement most antenna configurations.

- Broad band 1.5 to 32 MHz
- Power - 50 Watt to 1 kW
- Lightweight fibreglass body
- Transportable application

The transformers are housed in extremely strong fibre glass bodies, hermetically sealed with low loss resin and suitable for any environment. The input coaxial connector is protected within the specially formed body and the transformer itself is grounded as an added protection against static and lightning induced EMF's. A spigoted version, type TAS, is available for use with the SMC range of masts.



Specs	Information
Frequency	1.6 - 32 MHz
Input Impedance	50 Ohm unbalanced
Output Impedance	See above
Average Power	50 W, 150 W, 400 W, 1 kW
Max Peak	4 X Average power
VSWR	Less than 1.3 : 1
Max. load VSWR	3 : 1
Insertion loss	Less Than 0.25 dB
Balance ratio	Greater than 26 dB
Temperature range	-40°C to +70°C
Connectors	BNC, N, UHF, C
Configuration	Fibre glass body Stainless Steel arms (chemically blackened). Low loss resin fill. Epoxy paint finish.

All specifications are that of typical performance.

TA5	
av. power: 50 Watt i/p imp: 50 Ohm unbalanced	
50 Ohm	TA5-55
75 Ohm	TA5-57
200 Ohm	TA5-520
300 Ohm	TA5-530
370 Ohm	TA5-537
450 Ohm	TA5-545
600 Ohm	TA5-560
800 Ohm	TA5-580

TA15	
av. power: 150 Watt i/p imp: 50 Ohm unbalanced	
50 Ohm	TA15-55
75 Ohm	TA15-57
200 Ohm	TA15-520
300 Ohm	TA15-530
370 Ohm	TA15-537
450 Ohm	TA15-545
600 Ohm	TA15-560
800 Ohm	TA15-580

TA40	
av. power: 400 Watt i/p imp: 50 Ohm unbalanced	
50 Ohm	TA40-55
75 Ohm	TA40-57
200 Ohm	TA40-520
300 Ohm	TA40-530
370 Ohm	TA40-537
450 Ohm	TA40-545
600 Ohm	TA40-560
800 Ohm	TA40-580

TAS40	
av. power: 400 Watt i/p imp: 50 Ohm unbalanced	
50 Ohm	TAS40-55
75 Ohm	TAS40-57
200 Ohm	TAS40-520
300 Ohm	TAS40-530
370 Ohm	TAS40-537
450 Ohm	TAS40-545
600 Ohm	TAS40-560
800 Ohm	TAS40-580

TA100	
av. power: 1kW i/p imp: 50 Ohm unbalanced	
50 Ohm	TA100-55
75 Ohm	TA100-57
200 Ohm	TA100-520
300 Ohm	TA100-530
370 Ohm	TA100-537
450 Ohm	TA100-545
600 Ohm	TA100-560
800 Ohm	TA100-580

TAS100	
av. power: 1kW i/p imp: 50 Ohm unbalanced	
50 Ohm	TAS100-55
75 Ohm	TAS100-57
200 Ohm	TAS100-520
300 Ohm	TAS100-530
370 Ohm	TAS100-537
450 Ohm	TAS100-545
600 Ohm	TAS100-560
800 Ohm	TAS100-580