

Marconi Transmitter Aerial Matching Units

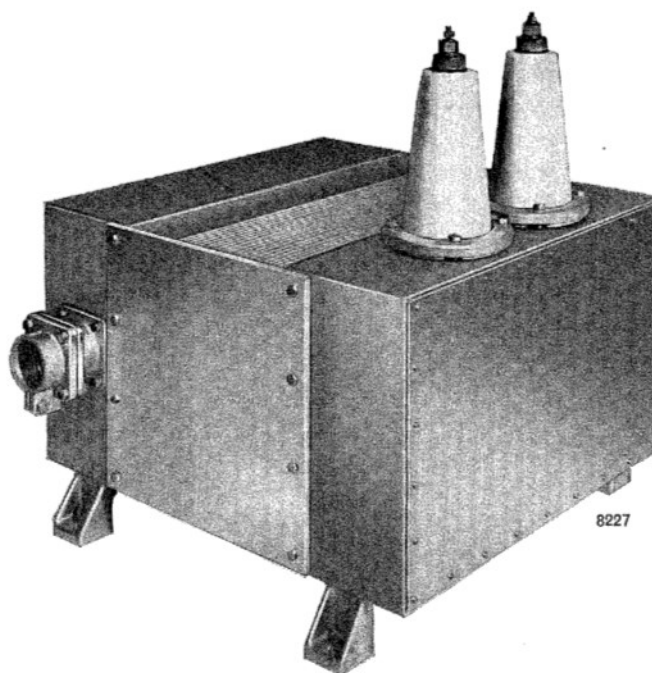
High-power Matching Transformers

Types HA 111A, HA 112, HA 113B, HA 113C, and HA 114

These units are suitable for matching open-wire feeders to coaxial feeders. They consist essentially of a suitable winding on a magnetic core of small dimensions but high permeability and resistivity.

The HA 111A is oil-filled and the remaining transformers are cooled by natural air convection.

All types carry two insulators, for terminating the open-wire feeders, and a coaxial socket. Several adaptors are available for accommodating various types of coaxial feeder.



Type HA 113B

	HA 111A	HA 112	HA 113B	HA 113C	HA 114
Frequency range	2.5-27.5 MHz	2.5-27.5 MHz	4-27.5 MHz	2-27.5 MHz	2-27.5 MHz
Mean power rating for 2:1 v.s.w.r.	2.5 MHz 20 MHz 500 W 350 W (at 45°C ambient temperature)	2.5 kW or 3.5 kW	20 kW	10 kW	800 W
Transformation ratio unbalanced:balanced	50:600 Ω	50:600 Ω	50:600 Ω	50:600 Ω	75:600 Ω
Insertion loss	<0.5 dB	<0.2 dB	<0.25 dB	<0.25 dB	<0.25 dB
Dimensions					
Dia.:		1 ft 7 in. (48 cm)			
Height:	10 in. (25.4 cm)		1 ft 11½ in. (60 cm)	1 ft 11½ in. (60 cm)	1 ft (30.5 cm)
Width:	8½ in. (21.6 cm)		1 ft 10 in. (56 cm)	1 ft 10 in. (56 cm)	1 ft 1½ in. (33.6 cm)
Depth:	8½ in. (21.6 cm)	1 ft (30.5 cm)	1 ft 10 in. (56 cm)	1 ft 10 in. (56 cm)	10¾ in. (27.5 cm)
Weight:	28 lb. (12.7 kg)	50 lb. (22.7 kg)	135 lb. (61.3 kg)	135 lb. (61.3 kg)	15 lb. (6.8 kg)

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