

Low Power Terminations/Directional Couplers/Transitions

MODEL 912, 916 951A, 942, 943 914, 914A

Low Power Terminations Model 912, 916

Considerable care has been taken in design and manufacture of Model 912 and 916, to ensure a Low VSWR. The terminations are designed for termination of Magnetic AB Noise Sources, but are also suitable for other measurements, where a termination, which has a negligibly small reflection coefficient is required.

The terminations are available in Brass or Aluminium waveguide and have the Model no:s 912 and 916 respectively.

Coaxial Low Power Termination Model 951A

This termination is primarily designed for termination of Coaxial Noise Source Model 122C but has also found wide use in other laboratory applications, where good VSWR's are required.



Specifications

Model ¹)	Frequency Range, GHz	Wave IEC R	egulde JAN RG/U	Fian IEC	ges UG/U	Average Power (max) W	Max. VSWR	Length mm
S912 G912 J912 H912 X912 P912	2.90— 3.50 3.95— 5.85 5.85— 8.20 7.05—10.00 8.2—12.40 12.40—18.00	32 48 70 84 100 140	48 49 50 51 52 91	UAR32 UAR48 UAR70 UBR84 UBR100 UBR140	53 149A 344 51 39 419	1.0	1.02	220 180 140 110 100 80
951A	0-4, 4-7	Coaxial		N-male	50 ohms	1.1, 1.15 respectively		tively

¹⁾ In Aluminium alloy the Model no. is 916

MAGNETIC AB H 942-30 Ber M. 145 H 942

Cross-Guide Directional Couplers Model 942, 943

Magnetic AB Cross-Guide Directional Couplers are specially designed to meet

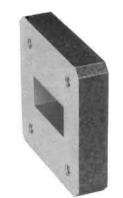
the requirements of high coupling accuracy over frequency ranges required for noise figure measurements.

Specifications

Model ¹)	Frequency Range, GHz	Wavegulde		Flanges		Coupling ²)	Coupling
		IEC R	JAN RG/U	IEC	UG/U	dB	Accuracy, dB
S942 G942	2. 60 — 3. 95 3. 95— 5.8 5	32	48	UAR32	53	20	± 0.5
J942 J942 H942	5.85— 5.85 5.85— 8.20 8.5— 9.6	48 70 84	49 50 51	UAR48 UAR70 UBR84	149A 344 51	20 20 20	士 0.5 士 0.5 士 0.5
X942	8.5 — 9.6	100	52	UBR100	39	20	± 0.5

¹⁾ In Aluminium alloy the Model no. is 943. 2) May be changed upon request.

X/H 914 A



X/H 914

Waveguide Transition Model 914A

These components provide transitions from waveguide R84/RG51 to R100/RG52 with flanges UG51/UG39. The lengths of the transition is 50 millimetres and VSWR is better than 1.04. Transitions between other waveguide sizes are available on request.

Waveguide Step Transition Model 914

A new Step Transition Model 914 is available for transitions from waveguide R84/RG51 to R100/RG52. This transition has a length of only 10.4 millimetres and VSWR better than 1.04. The transition is only available in Aluminium alloy.