

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

<sup>1)</sup> In Aluminium alloy the Model no. is 916

### 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 <sup>1)</sup>	Frequency Range, GHz	Waveguide		Flanges		Coupling <sup>2)</sup> dB	Coupling Accuracy, dB
		IEC R	JAN RG/U	IEC	UG/U		
S942	2.60—3.95	32	48	UAR32	53	20	± 0.5
G942	3.95—5.85	48	49	UAR48	149A	20	± 0.5
J942	5.85—8.20	70	50	UAR70	344	20	± 0.5
H942	8.5—9.6	84	51	UBR84	51	20	± 0.5
X942	8.5—9.6	100	52	UBR100	39	20	± 0.5

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

### 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.



H 912



H 942



X/H 914 A



X/H 914