



Model 87004 X-TRACTOR



Model 87035 X-TRACTOR

Coaxial Dynamics

RF Adjustable & Directional Coupler Elements

87000 SERIES

Adjustable X-TRACTORS

Coaxial Dynamics ADJUSTABLE X-TRACTORS are nondirectional, adjustable amplitude, RF Signal Sampling Elements. Designed to permit easy coupling into a coaxial line for counting of frequency, spectrum analysis or scope display. They are extremely small, convenient to carry and may be used in conjunction with the Coaxial Dynamics Model 81000-A RF Wattmeter, its own auxiliary line section (Coaxial Dynamics Model 88536), or any standard 7/8" thru 3-1/8" line section.

The X-TRACTOR exhibits extremely low VSWR and insertion loss, plus it is virtually transparent to RF signals within its frequency range of operation. Available at its BNC connector is an unrectified RF signal, adjustable over a range below the signal within the coaxial line, by means of a screwdriver adjustment. The X-TRACTOR can be used to sample any signal between 2 and 1000 MHz at power levels of up to the rating of the line section.

Model No.'s	Line Section	Nominal Coupling ± 8 dB
87004	7/8"	43 dB
87005	7/8"	45 dB
87021	1 5/8"	49 dB
87031	3 1/8"	56 dB

SPECIFICATIONS

Frequency Range 2 MHz - 1000 MHz
 Insertion VSWR* 1.1 max., 2 - 512 MHz
 1.25max., 512 - 1000 MHz
 Insertion Loss* 0.1 dB max., 2 - 512 MHz
 0.2 dB max., 512 - 1000 MHz
 Connectors BNC Female

*With Type N Line-Section Connectors & at Nominal Coupling
 Specifications are subject to change without notice.

Directional X-TRACTORS

Coaxial Dynamics X-TRACTOR Series 87000 are directional RF signal sampling couplers. They permit easy sampling of RF power for frequency counting, spectrum analyzing, or scope display.

DIRECTIONAL X-TRACTORS are transparent to RF signals by virtue of their extremely low VSWR and insertion loss. Power levels of up to 100,000 watts can be sampled for frequencies between 50 and 500 MHz. Fixed attenuation values are available ranging from 37.5 to 70 dB.

DIRECTIONAL X-TRACTORS come with a standard BNC connector for the RF output and may be used in any standard 7/8" thru 6 1/8" coaxial line sections. It also may be used in the Coaxial Dynamics Model 81000-A and other RF Wattmeters, or with the X-TRACTOR auxiliary line section (Coaxial Dynamics) Model 88536. This line section can be left inserted in the coaxial line at all times and comes equipped with a dust cover to be used when an X-TRACTOR is not in use.

Model No.'s	Line Section	Max. Power "Watts"	Coupling dB ± 1 dB	Frequency
*† 87014S	7/8"	1,000	37.5 \pm 3/4 dB	54-90 MHz
* 87015	7/8"	1,000	50	50-500 MHz
* 87024	1 5/8"	1,000	40	50-500 MHz
87024H	1 5/8"	5,000	40	50-500 MHz
87025	1 5/8"	10,000	50	50-500 MHz
87026	1 5/8"	2,500	45	400-800 MHz
87027	1 5/8"	5,000	50	400-800 MHz
87035	3 1/8"	10,000	50	50-500 MHz
87035H	3 1/8"	35,000	50	50-500 MHz
87036	3 1/8"	100,000	60	50-500 MHz
87038	3 1/8"	5,000	50	400-800 MHz
87039	3 1/8"	10,000	70	400-800 MHz
87046	4 1/16"	50,000	60	50-500 MHz
87066	6 1/8"	50,000	60	50-500 MHz

† Consult Factory for Availability.

* ± 1 dB 174 - 500 MHz Coupling drops to 48 dB at 50 MHz.

SPECIFICATIONS

Frequency Range See Chart
 Insertion VSWR 1.1 max.
 Insertion Loss 0.1 dB max.
 Directivity 30 dB
 Maximum Power See Chart

Connectors:
 Directional X-TRACTORS BNC Female
 Auxiliary Line Section 7/8" With any Standard Quick-Match Connectors
 Specifications are subject to change without notice



Coaxial Dynamics

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