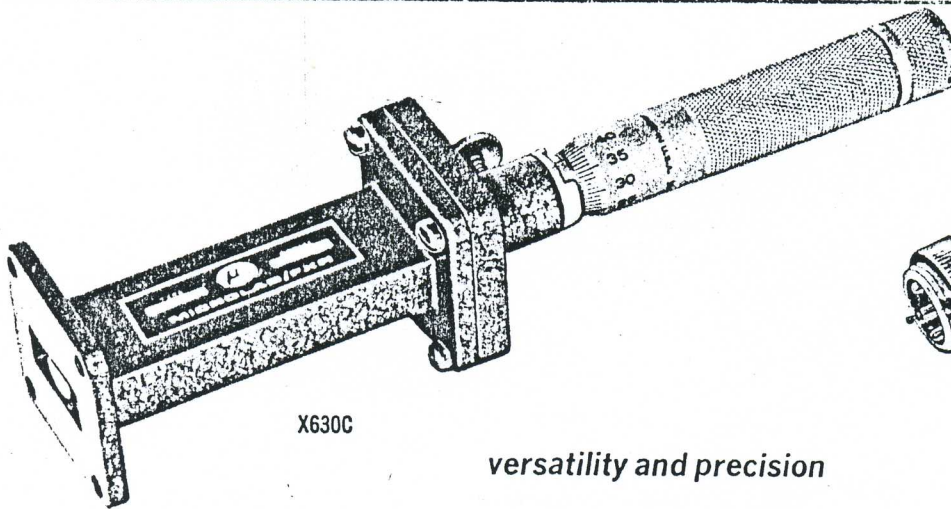
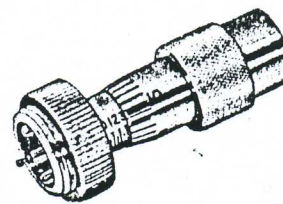


TUNERS

WAVEGUIDE / ADJUSTABLE SHORTS



X630C



F631A

versatility and precision

Microlab/FXR 630 and 631 series waveguide precision adjustable shorts are used as tuning elements, as adjustable standard reactances, and for determination of the equivalent circuit of an unknown four-pole network. Double choke, circular, non-contacting, shorting plungers are movable through a minimum range of one-half wavelength at the lowest operating frequency and provide superior low loss characteristics and long life. The L630B uses a "bucket" type shorting plunger.

Adjusting shorts below 5.85 GHz have knob driven lead screws with positions accurately indicated by a linear scale and vernier index with a resolution of 0.01 centimeters. Above 5.85 GHz, they employ micrometer driven lead screws with a resolution of 0.0001 inches. The micrometer head is provided with a locking screw.

MIN. TRAVEL	1/2 guide wavelength
MIN. VSWR (< 75 GHz)	100:1
MIN. VSWR (> 75 GHz)	20:1
RESOLUTION (below 5.85 GHz)	0.01 cm
RESOLUTION (above 5.85 GHz)	0.0001 inch
LOCKING SCREW	yes
TEMPERATURE RANGE	-55°C to +125°C
HOUSING FINISH	paint, enamel
FLANGE MATERIAL	aluminum (< 5.85 GHz) brass (> 5.85 GHz)
FLANGE FINISH	nickel (< 12.4 GHz) silver (12.4 to 90 GHz) gold (> 90 GHz)

FREQUENCY RANGE (GHz)	FLANGE TYPE EQUIV.	WAVEGUIDE		SHORT TRAVEL (in)	OVERALL LENGTH (in)	WEIGHT (lbs)	MICROLAB /FXR PART NO.	PRICE
		RG NO.	WR NO.					
1.12-1.70	UG-418A/U	103	650	11.1	40.2	23	L630B	see price list
2.60-3.95	UG-584/U	75	284	4.0	12.6	6.4	S630C	
3.95-5.85	UG-407/U	95	187	3.1	10.0	2.9	H630C	
5.85-8.20	UG-344/U	50	137	1.8	9.8	2.5	C630C	
7.05-10.00	UG-51/U	51	112	1.8	9.6	1.3	W630C	
8.20-12.40	UG-39/U	52	90	1.8	9.2	0.9	X630C	
12.40-18.00	UG-419/U	91	62	1.0	5.3	0.7	Y630C	
18.00-26.50	UG-425/U	53	42	0.6	4.1	0.3	K630C	
18.00-26.50	UG-595/U	53	42	0.6	4.1	0.3	K630CF	
26.50-40.00	UG-599/U	96	28	0.6	3.9	0.1	U630CF	
33.00-50.00	UG-383/U	97	22	0.5	3.7	0.3	Q630C	
50.00-75.00	UG-385/U	98	15	0.5	3.7	0.1	M630C	
60.00-90.00	UG-387/U	99	12	0.5	3.6	0.1	E630C	
90.00-140.00	FXR Special	138	8	0.3	1.6	0.1	F631A	
140.00-220.00	FXR Special	135	5	0.2	2.0	0.1	G631A	



MICROLAB/FXR

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