



CRYSTAL FREQUENCIES FOR EQUIPMENT WORKING THROUGH REPEATERS

The R. L. Drake Company stocks ML-2, TR-72 and TR-22 crystals for the following frequencies which are normally available for immediate shipment. Crystals for other frequencies usually require approximately four weeks for delivery.

HALF DUPLEX FREQUENCIES

Frequency in MHz	
Transmit	Receive
146.01	146.61
146.04	146.64
146.07	146.67
146.10	146.70
146.13	146.73
146.16	146.76
146.19	146.79
146.22	146.82
146.25	146.85
146.28	146.88
146.31	146.91
146.34	146.94
146.37	146.97

SIMPLEX FREQUENCIES

Frequency in MHz	
Transmit	Receive
146.40	146.40
146.43	146.43
146.46	146.46
146.49	146.49
146.52	146.52
146.55	146.55
146.58	146.58

NOTE: Orders for crystals outside the 2 Meter Band will not be accepted.

SPR-4 CRYSTALS

Operating Frequency in MHz	Crystal Frequency in MHz
.15 - .5*	None Required
.5 - 1.0*	11.59
1.0 - 1.5*	12.09
1.5 - 2.0	12.59
2.0 - 2.5	13.09
2.5 - 3.0	13.59
3.0 - 3.5	14.09
3.5 - 4.0	14.59
4.0 - 4.5	15.09
4.5 - 5.0	15.59
5.0 - 5.5	16.09
5.5 - 6.0	16.59
6.0 - 6.5*	17.09
6.5 - 7.0	17.59
7.0 - 7.5*	18.09
7.5 - 8.0	18.59
8.0 - 8.5	19.09
8.5 - 9.0	19.59
9.0 - 9.5	20.09
9.5 - 10.0*	20.59
10.0 - 10.5	21.09
10.5 - 11.0	21.59
11.0 - 11.5	22.09
11.5 - 12.0*	22.59
12.0 - 12.5	23.09
12.5 - 13.0	23.59
13.0 - 13.5	24.09
13.5 - 14.0	24.59
14.0 - 14.5	25.09
14.5 - 15.0	25.59

Operating Frequency in MHz	Crystal Frequency in MHz
15.0 - 15.5*	26.09
15.5 - 16.0	26.59
16.0 - 16.5	27.09
16.5 - 17.0	27.59
17.0 - 17.5	28.09
17.5 - 18.0*	28.59
18.0 - 18.5	29.09
18.5 - 19.0	29.59
19.0 - 19.5	30.09
19.5 - 20.0	30.59
20.0 - 20.5	31.09
20.5 - 21.0	31.59
21.0 - 21.5	32.09
21.5 - 22.0*	32.59
22.0 - 22.5	33.09
22.5 - 23.0	33.59
23.0 - 23.5	34.09
23.5 - 24.0	34.59
24.0 - 24.5	35.09
24.5 - 25.0	35.59
25.0 - 25.5	36.09
25.5 - 26.0	36.59
26.0 - 26.5	37.09
26.5 - 27.0	37.59
27.0 - 27.5	38.09
27.5 - 28.0	38.59
28.0 - 28.5	39.09
28.5 - 29.0	39.59
29.0 - 29.5	40.09
29.5 - 30.0	40.59

*SPR-4 normally supplied with these operating frequencies.

CRYSTAL KITS (SPR-4 ONLY)

SPR-4 ACCESSORIES

	PRICE
AMATEUR BANDS – 160 M, 80M, 20 M, 15 M and 10 M ranges. Six crystals cover:	\$31.20
1.5 – 2.0 MHz 21.0 – 21.5 MHz	
3.5 – 4.0 28.0 – 28.5	
14.0 – 14.5 28.5 – 29.0	
MARINE BANDS – Eleven crystals cover:	\$57.20
2.0 – 2.5 MHz 8.5 – 9.0 MHz 17.0 – 17.5 MHz	
2.5 – 3.0 12.0 – 12.5 22.0 – 22.5	
4.0 – 4.5 13.0 – 13.5 22.5 – 23.0	
8.0 – 8.5 16.5 – 17.0	
AERONAUTICAL OVERSEAS – Seven crystals cover:	\$36.40
2.5 – 3.0 MHz 6.5 – 7.0 MHz	
3.0 – 3.5 8.5 – 9.0	
4.5 – 5.0 13.0 – 13.5	
5.5 – 6.0	
TIME & FREQUENCY STANDARD, WWV – Five crystals cover:	\$26.00
2.5 – 3.0 MHz 15.0 – 15.5 MHz (original equipment)	
5.0 – 5.5 20.0 – 20.5	
10.0 – 10.5 25.0 – 25.5	
CITIZENS BAND – One crystal and Frequency chart:	\$ 5.25
27.0 – 27.5 MHz* (*Generous overtravel gives additional 50 kHz or more off ends of each range.)	
TROPICAL BROADCAST – Three crystals cover:	\$15.60
2.0 – 2.5 MHz 3.0 – 3.5 MHz 4.5 – 5.0 MHz	
MARS – Five crystals cover:	\$26.00
2.0 – 2.5 MHz 4.0 – 4.5 MHz 18.0 – 18.5 MHz	
3.0 – 3.5 5.0 – 5.5	
TELETYPE COMMERCIAL – UPI, AP, STOCK MARKET, WEATHER, ETC. – Four crystals cover:	\$20.80
7.5 – 8.0 MHz 13.5 – 14.0 MHz	
9.0 – 9.5 15.5 – 16.0	

	PRICE
MATCHING SPEAKER – Same as SPR-4, has 5 x 7 speaker.	
Model MS-4	\$24.95
CALIBRATOR – Plug-in 100 kHz crystal oscillator with harmonics that occur at 100 kHz intervals throughout range of SPR-4.	
Model SCC-4	\$20.00
NOISE BLANKER – Plug-in 11' type noise blanker mutes receiver for duration of each noise pulse. 18 transistors, 2 diodes.	
Model 5-NB	\$70.00
LOOP ANTENNA – Directional antenna nulls out undesired stations, plugs into receptacle through top of the cabinet. Works from 150 kHz to 1600 kHz only.	
Model AL-4	\$29.00
ANTENNA KIT – Consists of wire, insulators, lead-in, and instructions.	
Model AN-5	\$ 8.80
DC POWER CORD – Plugs into cigarette lighter in an automobile, allows SPR-4 to be used on 12 Volts DC supply.	
Model DC-PC	\$ 5.00
TRANSCIVE ADAPTOR – Allows SPR-4 to transceive with T-4B or T-4XB Transmitters. Consists of printed circuit board and connectors. Must be wired into SPR-4 by technician.	
Model TA-4	\$35.00
TELETYPE ADAPTOR – Allows reception of standard teletype tones 2125/2975 Hz and 2125/2295 Hz by remote shifting BFO.	
Model RY-4	\$20.00
MMK-3, Mobile Mount Kit	\$ 7.00
DIAL, Crystal Selector, Plain	\$ 3.00
WORLD RADIO & TV HANDBOOK	\$10.95
TECHNICAL MANUAL (SPR-4)	\$ 4.00