



## CRYSTAL ORDER FORM

R. L. DRAKE COMPANY  
540 Richard Street  
Miamisburg, Ohio 45342

### Fixed Frequency Operation with:

T-4 For operation below 10 MHz, Xtal  
T-4B Freq. = Oper. Freq. + 5.645.  
T-4X\* For operation above 10 MHz,  
T-4XB\* Xtal Freq. =  $\frac{\text{Oper. Freq.} + 5.645}{2}$   
T-4XC  
R-4A  
R-4B

\*Modified for fixed frequency operation

**UNIT PRICE: \$7.50**

### Fixed Frequency Operation with:

R-4 Xtal Freq. = Oper. Freq. + 11.1.  
A 5.455 MHz lock Xtal is required  
for R-4 F.F. Operation

**UNIT PRICE: \$7.50**

### Variable Frequency Operation with:

T-4X Xtal Freq. = low end of Oper. Band  
T-4XB in MHz + 11.1  
T-4XC  
R-4  
R-4A  
R-4B  
R-4C  
SW-4

**UNIT PRICE: \$5.00**

### Variable Frequency Operation with:

SW-4A Xtal Freq. = low end of Oper. Band  
in MHz + 11.090

**UNIT PRICE: \$5.00**

### Range Crystals for:

2-B Crystals for 2-B are not available.  
Order 2-C crystals for appropriate  
range. (Tuning range is in incre-  
ments of 500 kHz.)

**UNIT PRICE: \$5.00**

### Range Crystals for:

2-C Up to 24.0 MHz operation only:  
Xtal Freq. = low end of Oper. Band  
plus 4.0.  
Over 24.0 MHz:  
Xtal Freq. = high end of Oper. Band  
minus 4.0.

**UNIT PRICE: \$5.00**

### Crystals for:

2-NT

| FREQUENCY IN MHz |            |             |
|------------------|------------|-------------|
| Band             | Xtal Range | Oper. Freq. |
| 80 M             | 3.5-3.8    | Xtal x 1    |
| 40 M             | 7.0-7.2    | Xtal x 1    |
| 20 M             | 7.0-7.125  | Xtal x 2    |
| 15 M             | 7.0-7.083  | Xtal x 3    |
| 10 M             | 7.0-7.125  | Xtal x 4    |

**UNIT PRICE: \$5.00**

### Crystals for:

ML-2

Specify Transmit or Receive and Frequency

**UNIT PRICE: \$5.00**

### Crystals for:

TR-22 and TR-22C

Specify Transmit or Receive and Frequency

**UNIT PRICE: \$7.50**

### Crystals for:

TR-72

Specify Transmit or Receive and Frequency

**UNIT PRICE: \$6.00**



## 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.