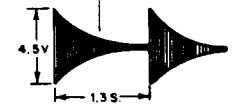
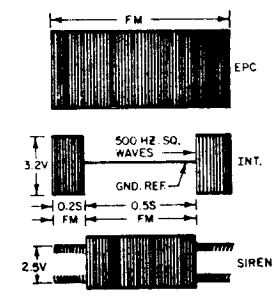


- NOTES:
- ALL RESISTORS ARE RATED IN OHMS, HAVE A TOLERANCE OF $\pm 10\%$ AND A WATTAGE RATING OF $1/2$ WATT, UNLESS OTHERWISE SPECIFIED.
 - ALL CAPACITORS ARE RATED IN MICROFARADS, UNLESS OTHERWISE SPECIFIED.
 - $1000 M = 1,000,000 PF = 10^{-12}$ FARAD.
 - \downarrow INDICATES CONNECTION TO CIRCUIT COMMON.
 - \square = ZERO SIGNAL D.C. VOLTAGES 20K OHM/V METER.
 - Δ INDICATES $\pm 5\%$ TOLERANCE COMPONENT.
 - D1 THRU D14 ARE IN 457A
 - JUMPER J1 USED ONLY WITH 12 VOLT SUPPLY AT M-2.
 - R7, R8, R9 ARE MOVED TO A1, A2 & A3 LOCATION RESPECTIVELY TO CONTROL TONES ON "A".
 - () INDICATES TERMINAL BLOCK LUGS.
 - JUMPER TERMINAL LUG (1) TO (10) TO COMBINE CHIME WITH OTHER THREE TONES.
 - WHEN CHIME OUTPUT IS USED SEPARATELY, CUT OUT D9 TO ELIMINATE RELAY ACTIVATE SIGNAL.
 - FOR 28VDC SUPPLY, CHANGE R56 TO 220 Ω , 2W.



IC NO.	RAULAND P/N	TYPE	DESCRIPTION
1	EC-0046	4519	4BIT AND/OR SELECT
2	EC-0052	4016	QUAD ANALOG SWITCH
3	EC-0056	566	VOLT. CONT. OSCILLATOR
4	EC-0004	555	TIMER
5	EC-0013	741	OPERATIONAL AMPLIFIER

