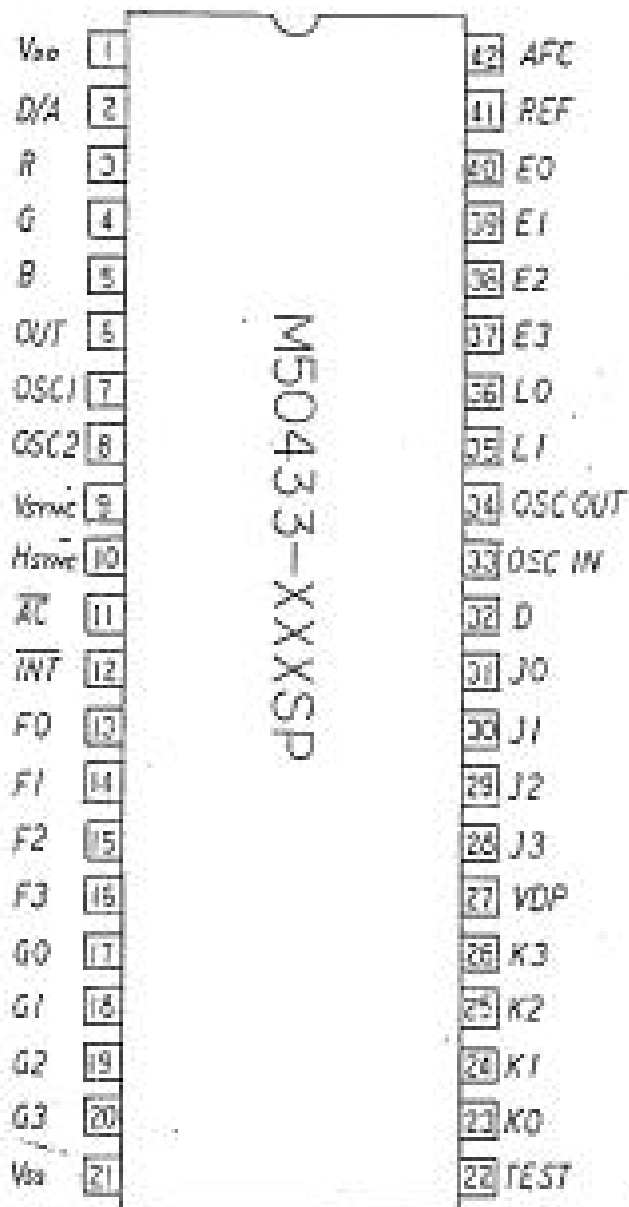


2. ピン接続図



3. 絕對最大定值

記号	項目	条件	定 值 值	单位
$V_{DD}$	電源電圧	$V_{SS}$ 端子は基準にL $\bar{T}$ 測定 $\bar{T}$ 台	-0.3 ~ +6.0	V
$V_{I}$	入力電圧		-0.3 ~ $V_{DD} + 0.3$	V
$V_{O}$	出力電圧		-0.3 ~ $V_{DD} + 0.3$	V
$V_{SDS}$	出力耐圧 $K_0 \sim K_3$ $V_{DP}$		+13	V
$T_{oper}$	動作周囲温度	-	-10 ~ +70	$^{\circ}C$
$T_{stg}$	保存温度	-	-40 ~ +125	$^{\circ}C$
$P_d$	消費電力	$T_a = 25^{\circ}C$	500	mW

4. 推奨動作条件 (指定のない場合は,  $T_a = -10 \sim 70^{\circ}C$ ,  $V_{DD} = 5V \pm 10\%$ )

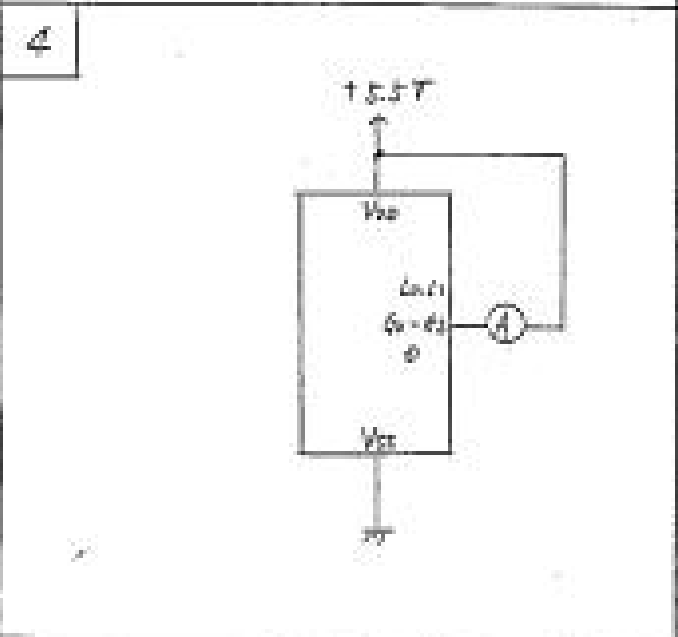
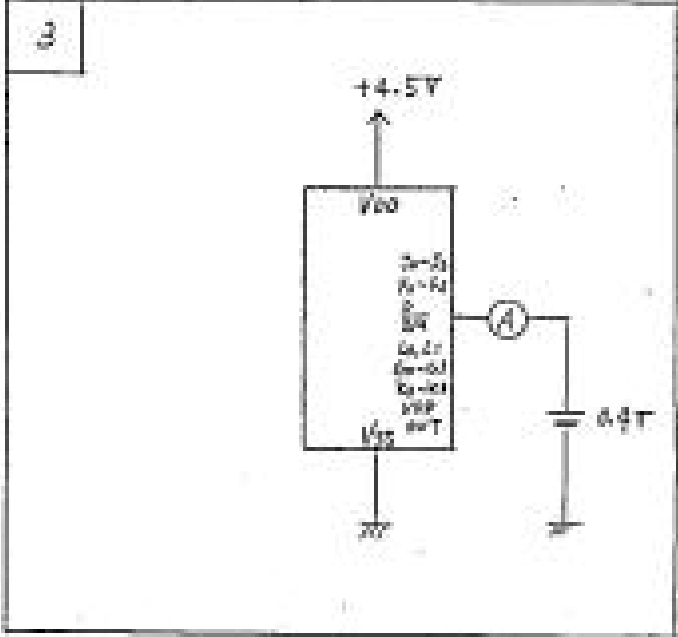
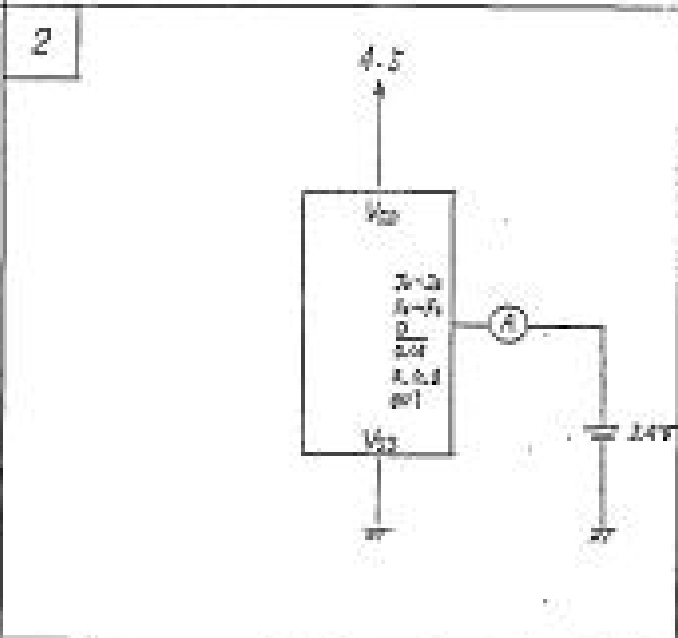
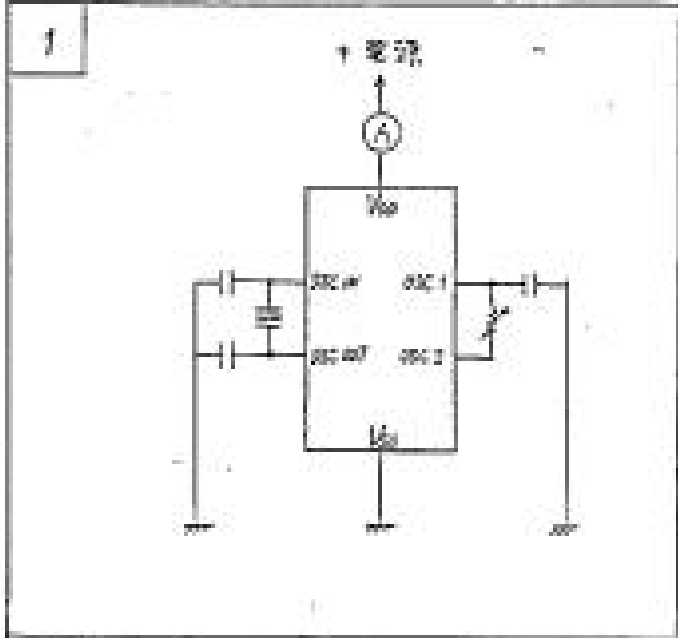
記号	項 目	定 値 値			单位
		最小	推奨	最大	
$V_{DD}$	電源電圧	4.5	5.0	5.5	V
$V_{SS}$	電源電圧	-	0	-	V
$V_{IH}$	'H' 入力電圧 $E_0 \sim E_3, D, \overline{INT}, L_0, L_1$ $G_0 \sim G_3$	0.7 $V_{DD}$	-	$V_{DD}$	V
$V_{IH}$	'H' 入力電圧 $\overline{AC}, MSTRAC, VERRAC$	0.9 $V_{DD}$	-	$V_{DD}$	V
$V_{IL}$	'L' 入力電圧 $E_0 \sim E_3, D, \overline{INT}, L_0, L_1$ $G_0 \sim G_3, \overline{AC}, MSTRAC, VERRAC$	0	-	0.3 $V_{DD}$	V
$V_{SDS}$	出力耐圧 $K_0 \sim K_3, V_{DP}$	-	-	12	V
$I_O$	尖頭出力電流 $K_0 \sim K_3, V_{DP}$	-	-	1	mA
$f_{CPU}$	発振周波数 (CPU部)	-	4.0	-	MHz
$f_{CRT}$	発振周波数 (CPU部)	4.0	5.0	6.0	MHz

5. 電氣的特性 (指定の位の場合、 $T_a = -10 \sim 70^\circ\text{C}$ ,  $V_{DD} = 5.0 \pm 10\%$ ,  $f_{CPU} = 4\text{MHz}$ )

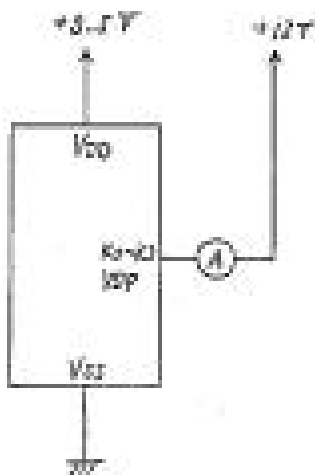
記号	項目	条件	電圧値			単位	測定回路
			最小	標値	最大		
$V_{DD}$	動作電圧範囲	$f_{CPU} = 4\text{MHz}$ $f_{CRT} = 4 \sim 6\text{MHz}$	4.5	5.0	5.5	V	1
$I_{DD}$	電源電流	$V_{DD} = 4.5\text{V}$ $f_{CPU} = 4\text{MHz}$ 表示OFF	-	1.5	5.0	mA	1
		$V_{DD} = 5.5\text{V}$ $f_{CPU} = 4\text{MHz}$ $f_{CRT} = 6\text{MHz}$ (表示ON)	-	3.0	12.0	mA	
$I_{OH}$	"H" 出力電流 A, B, C, D, E, F, G, H, OUT	$V_{DD} = 4.5\text{V}$ $V_{OH} = 2.4\text{V}$	-0.5	-	-	mA	2
$I_{OL}$	"L" 出力電流 A, B, C, D, E, F, G, H, OUT	$V_{DD} = 4.5\text{V}$	0.5	-	-	mA	3
		$V_{OH} = 0.4\text{V}$	2.0	-	-	mA	
$I_{org}$	A, B, C, D, E, F, G, H, OUT	$V_D = V_{DD}$	-	-	1	mA	4
	$k_0 \sim k_2, V_{OP}$	$V_D = 12\text{V}$	-	-	5	mA	5
$R_{sw}$	7A, 7B, 7C, 7D, 7E, 7F, 7G, 7H, 7I, 7J, 7K, 7L, 7M, 7N, 7P, 7Q, 7R, 7S, 7T, 7U, 7V, 7W, 7X, 7Y, 7Z, 7AA, 7AB, 7AC, 7AD, 7AE, 7AF, 7AG, 7AH, 7AI, 7AJ, 7AK, 7AL, 7AM, 7AN, 7AO, 7AP, 7AQ, 7AR, 7AS, 7AT, 7AU, 7AV, 7AW, 7AX, 7AY, 7AZ, 7BA, 7BB, 7BC, 7BD, 7BE, 7BF, 7BG, 7BH, 7BI, 7BJ, 7BK, 7BL, 7BM, 7BN, 7BO, 7BP, 7BQ, 7BR, 7BS, 7BT, 7BU, 7BV, 7BW, 7BX, 7BY, 7BZ, 7CA, 7CB, 7CC, 7CD, 7CE, 7CF, 7CG, 7CH, 7CI, 7CJ, 7CK, 7CL, 7CM, 7CN, 7CO, 7CP, 7CQ, 7CR, 7CS, 7CT, 7CU, 7CV, 7CW, 7CX, 7CY, 7CZ, 7DA, 7DB, 7DC, 7DD, 7DE, 7DF, 7DG, 7DH, 7DI, 7DJ, 7DK, 7DL, 7DM, 7DN, 7DO, 7DP, 7DQ, 7DR, 7DS, 7DT, 7DU, 7DV, 7DW, 7DX, 7DY, 7DZ, 7EA, 7EB, 7EC, 7ED, 7EE, 7EF, 7EG, 7EH, 7EI, 7EJ, 7EK, 7EL, 7EM, 7EN, 7EO, 7EP, 7EQ, 7ER, 7ES, 7ET, 7EU, 7EV, 7EW, 7EX, 7EY, 7EZ, 7FA, 7FB, 7FC, 7FD, 7FE, 7FF, 7FG, 7FH, 7FI, 7FJ, 7FK, 7FL, 7FM, 7FN, 7FO, 7FP, 7FQ, 7FR, 7FS, 7FT, 7FU, 7FV, 7FW, 7FX, 7FY, 7FZ, 7GA, 7GB, 7GC, 7GD, 7GE, 7GF, 7GG, 7GH, 7GI, 7GJ, 7GK, 7GL, 7GM, 7GN, 7GO, 7GP, 7GQ, 7GR, 7GS, 7GT, 7GU, 7GV, 7GW, 7GX, 7GY, 7GZ, 7HA, 7HB, 7HC, 7HD, 7HE, 7HF, 7HG, 7HH, 7HI, 7HJ, 7HK, 7HL, 7HM, 7HN, 7HO, 7HP, 7HQ, 7HR, 7HS, 7HT, 7HU, 7HV, 7HW, 7HX, 7HY, 7HZ, 7IA, 7IB, 7IC, 7ID, 7IE, 7IF, 7IG, 7IH, 7II, 7IJ, 7IK, 7IL, 7IM, 7IN, 7IO, 7IP, 7IQ, 7IR, 7IS, 7IT, 7IU, 7IV, 7IW, 7IX, 7IY, 7IZ, 7JA, 7JB, 7JC, 7JD, 7JE, 7JF, 7JG, 7JH, 7JI, 7JJ, 7JK, 7JL, 7JM, 7JN, 7JO, 7JP, 7JQ, 7JR, 7JS, 7JT, 7JU, 7JV, 7JW, 7JX, 7JY, 7JZ, 7KA, 7KB, 7KC, 7KD, 7KE, 7KF, 7KG, 7KH, 7KI, 7KJ, 7KK, 7KL, 7KM, 7KN, 7KO, 7KP, 7KQ, 7KR, 7KS, 7KT, 7KU, 7KV, 7KW, 7KX, 7KY, 7KZ, 7LA, 7LB, 7LC, 7LD, 7LE, 7LF, 7LG, 7LH, 7LI, 7LJ, 7LK, 7LL, 7LM, 7LN, 7LO, 7LP, 7LQ, 7LR, 7LS, 7LT, 7LU, 7LV, 7LW, 7LX, 7LY, 7LZ, 7MA, 7MB, 7MC, 7MD, 7ME, 7MF, 7MG, 7MH, 7MI, 7MJ, 7MK, 7ML, 7MM, 7MN, 7MO, 7MP, 7MQ, 7MR, 7MS, 7MT, 7MU, 7MV, 7MW, 7MX, 7MY, 7MZ, 7NA, 7NB, 7NC, 7ND, 7NE, 7NF, 7NG, 7NH, 7NI, 7NJ, 7NK, 7NL, 7NM, 7NO, 7NP, 7NQ, 7NR, 7NS, 7NT, 7NU, 7NV, 7NW, 7NX, 7NY, 7NZ, 7OA, 7OB, 7OC, 7OD, 7OE, 7OF, 7OG, 7OH, 7OI, 7OJ, 7OK, 7OL, 7OM, 7ON, 7OO, 7OP, 7OQ, 7OR, 7OS, 7OT, 7OU, 7OV, 7OW, 7OX, 7OY, 7OZ, 7PA, 7PB, 7PC, 7PD, 7PE, 7PF, 7PG, 7PH, 7PI, 7PJ, 7PK, 7PL, 7PM, 7PN, 7PO, 7PP, 7PQ, 7PR, 7PS, 7PT, 7PU, 7PV, 7PW, 7PX, 7PY, 7PZ, 7QA, 7QB, 7QC, 7QD, 7QE, 7QF, 7QG, 7QH, 7QI, 7QJ, 7QK, 7QL, 7QM, 7QN, 7QO, 7QP, 7QQ, 7QR, 7QS, 7QT, 7QU, 7QV, 7QW, 7QX, 7QY, 7QZ, 7RA, 7RB, 7RC, 7RD, 7RE, 7RF, 7RG, 7RH, 7RI, 7RJ, 7RK, 7RL, 7RM, 7RN, 7RO, 7RP, 7RQ, 7RR, 7RS, 7RT, 7RU, 7RV, 7RW, 7RX, 7RY, 7RZ, 7SA, 7SB, 7SC, 7SD, 7SE, 7SF, 7SG, 7SH, 7SI, 7SJ, 7SK, 7SL, 7SM, 7SN, 7SO, 7SP, 7SQ, 7SR, 7SS, 7ST, 7SU, 7SV, 7SW, 7SX, 7SY, 7SZ, 7TA, 7TB, 7TC, 7TD, 7TE, 7TF, 7TG, 7TH, 7TI, 7TJ, 7TK, 7TL, 7TM, 7TN, 7TO, 7TP, 7TQ, 7TR, 7TS, 7TT, 7TU, 7TV, 7TW, 7TX, 7TY, 7TZ, 7UA, 7UB, 7UC, 7UD, 7UE, 7UF, 7UG, 7UH, 7UI, 7UJ, 7UK, 7UL, 7UM, 7UN, 7UO, 7UP, 7UQ, 7UR, 7US, 7UT, 7UU, 7UV, 7UW, 7UX, 7UY, 7UZ, 7VA, 7VB, 7VC, 7VD, 7VE, 7VF, 7VG, 7VH, 7VI, 7VJ, 7VK, 7VL, 7VM, 7VN, 7VO, 7VP, 7VQ, 7VR, 7VS, 7VT, 7VU, 7VV, 7VW, 7VX, 7VY, 7VZ, 7WA, 7WB, 7WC, 7WD, 7WE, 7WF, 7WG, 7WH, 7WI, 7WJ, 7WK, 7WL, 7WM, 7WN, 7WO, 7WP, 7WQ, 7WR, 7WS, 7WT, 7WU, 7WV, 7WW, 7WX, 7WY, 7WZ, 7XA, 7XB, 7XC, 7XD, 7XE, 7XF, 7XG, 7XH, 7XI, 7XJ, 7XK, 7XL, 7XM, 7XN, 7XO, 7XP, 7XQ, 7XR, 7XS, 7XT, 7XU, 7XV, 7XW, 7XX, 7XY, 7XZ, 7YA, 7YB, 7YC, 7YD, 7YE, 7YF, 7YG, 7YH, 7YI, 7YJ, 7YK, 7YL, 7YM, 7YN, 7YO, 7YP, 7YQ, 7YR, 7YS, 7YT, 7YU, 7YV, 7YW, 7YX, 7YY, 7YZ, 7ZA, 7ZB, 7ZC, 7ZD, 7ZE, 7ZF, 7ZG, 7ZH, 7ZI, 7ZJ, 7ZK, 7ZL, 7ZM, 7ZN, 7ZO, 7ZP, 7ZQ, 7ZR, 7ZS, 7ZT, 7ZU, 7ZV, 7ZW, 7ZX, 7ZY, 7ZZ	$V_{DD} = 5.0\text{V}$ $V_I = 0\text{V}$	15	30	60	kΩ	6
	7A, 7B, 7C, 7D, 7E, 7F, 7G, 7H, 7I, 7J, 7K, 7L, 7M, 7N, 7P, 7Q, 7R, 7S, 7T, 7U, 7V, 7W, 7X, 7Y, 7Z, 7AA, 7AB, 7AC, 7AD, 7AE, 7AF, 7AG, 7AH, 7AI, 7AJ, 7AK, 7AL, 7AM, 7AN, 7AO, 7AP, 7AQ, 7AR, 7AS, 7AT, 7AU, 7AV, 7AW, 7AX, 7AY, 7AZ, 7BA, 7BB, 7BC, 7BD, 7BE, 7BF, 7BG, 7BH, 7BI, 7BJ, 7BK, 7BL, 7BM, 7BN, 7BO, 7BP, 7BQ, 7BR, 7BS, 7BT, 7BU, 7BV, 7BW, 7BX, 7BY, 7BZ, 7CA, 7CB, 7CC, 7CD, 7CE, 7CF, 7CG, 7CH, 7CI, 7CJ, 7CK, 7CL, 7CM, 7CN, 7CO, 7CP, 7CQ, 7CR, 7CS, 7CT, 7CU, 7CV, 7CW, 7CX, 7CY, 7CZ, 7DA, 7DB, 7DC, 7DD, 7DE, 7DF, 7DG, 7DH, 7DI, 7DJ, 7DK, 7DL, 7DM, 7DN, 7DO, 7DP, 7DQ, 7DR, 7DS, 7DT, 7DU, 7DV, 7DW, 7DX, 7DY, 7DZ, 7EA, 7EB, 7EC, 7ED, 7EE, 7EF, 7EG, 7EH, 7EI, 7EJ, 7EK, 7EL, 7EM, 7EN, 7EO, 7EP, 7EQ, 7ER, 7ES, 7ET, 7EU, 7EV, 7EW, 7EX, 7EY, 7EZ, 7FA, 7FB, 7FC, 7FD, 7FE, 7FF, 7FG, 7FH, 7FI, 7FJ, 7FK, 7FL, 7FM, 7FN, 7FO, 7FP, 7FQ, 7FR, 7FS, 7FT, 7FU, 7FV, 7FW, 7FX, 7FY, 7FZ, 7GA, 7GB, 7GC, 7GD, 7GE, 7GF, 7GG, 7GH, 7GI, 7GJ, 7GK, 7GL, 7GM, 7GN, 7GO, 7GP, 7GQ, 7GR, 7GS, 7GT, 7GU, 7GV, 7GW, 7GX, 7GY, 7GZ, 7HA, 7HB, 7HC, 7HD, 7HE, 7HF, 7HG, 7HH, 7HI, 7HJ, 7HK, 7HL, 7HM, 7HN, 7HO, 7HP, 7HQ, 7HR, 7HS, 7HT, 7HU, 7HV, 7HW, 7HX, 7HY, 7HZ, 7IA, 7IB, 7IC, 7ID, 7IE, 7IF, 7IG, 7IH, 7II, 7IJ, 7IK, 7IL, 7IM, 7IN, 7IO, 7IP, 7IQ, 7IR, 7IS, 7IT, 7IU, 7IV, 7IW, 7IX, 7IY, 7IZ, 7JA, 7JB, 7JC, 7JD, 7JE, 7JF, 7JG, 7JH, 7JI, 7JJ, 7JK, 7JL, 7JM, 7JN, 7JO, 7JP, 7JQ, 7JR, 7JS, 7JT, 7JU, 7JV, 7JW, 7JX, 7JY, 7JZ, 7KA, 7KB, 7KC, 7KD, 7KE, 7KF, 7KG, 7KH, 7KI, 7KJ, 7KK, 7KL, 7KM, 7KN, 7KO, 7KP, 7KQ, 7KR, 7KS, 7KT, 7KU, 7KV, 7KW, 7KX, 7KY, 7KZ, 7LA, 7LB, 7LC, 7LD, 7LE, 7LF, 7LG, 7LH, 7LI, 7LJ, 7LK, 7LL, 7LM, 7LN, 7LO, 7LP, 7LQ, 7LR, 7LS, 7LT, 7LU, 7LV, 7LW, 7LX, 7LY, 7LZ, 7MA, 7MB, 7MC, 7MD, 7ME, 7MF, 7MG, 7MH, 7MI, 7MJ, 7MK, 7ML, 7MM, 7MN, 7MO, 7MP, 7MQ, 7MR, 7MS, 7MT, 7MU, 7MV, 7MW, 7MX, 7MY, 7MZ, 7NA, 7NB, 7NC, 7ND, 7NE, 7NF, 7NG, 7NH, 7NI, 7NJ, 7NK, 7NL, 7NM, 7NO, 7NP, 7NQ, 7NR, 7NS, 7NT, 7NU, 7NV, 7NW, 7NX, 7NY, 7NZ, 7OA, 7OB, 7OC, 7OD, 7OE, 7OF, 7OG, 7OH, 7OI, 7OJ, 7OK, 7OL, 7OM, 7ON, 7OO, 7OP, 7OQ, 7OR, 7OS, 7OT, 7OU, 7OV, 7OW, 7OX, 7OY, 7OZ, 7PA, 7PB, 7PC, 7PD, 7PE, 7PF, 7PG, 7PH, 7PI, 7PJ, 7PK, 7PL, 7PM, 7PN, 7PO, 7PP, 7PQ, 7PR, 7PS, 7PT, 7PU, 7PV, 7PW, 7PX, 7PY, 7PZ, 7QA, 7QB, 7QC, 7QD, 7QE, 7QF, 7QG, 7QH, 7QI, 7QJ, 7QK, 7QL, 7QM, 7QN, 7QO, 7QP, 7QQ, 7QR, 7QS, 7QT, 7QU, 7QV, 7QW, 7QX, 7QY, 7QZ, 7RA, 7RB, 7RC, 7RD, 7RE, 7RF, 7RG, 7RH, 7RI, 7RJ, 7RK, 7RL, 7RM, 7RN, 7RO, 7RP, 7RQ, 7RR, 7RS, 7RT, 7RU, 7RV, 7RW, 7RX, 7RY, 7RZ, 7SA, 7SB, 7SC, 7SD, 7SE, 7SF, 7SG, 7SH, 7SI, 7SJ, 7SK, 7SL, 7SM, 7SN, 7SO, 7SP, 7SQ, 7SR, 7SS, 7ST, 7SU, 7SV, 7SW, 7SX, 7SY, 7SZ, 7TA, 7TB, 7TC, 7TD, 7TE, 7TF, 7TG, 7TH, 7TI, 7TJ, 7TK, 7TL, 7TM, 7TN, 7TO, 7TP, 7TQ, 7TR, 7TS, 7TT, 7TU, 7TV, 7TW, 7TX, 7TY, 7TZ, 7UA, 7UB, 7UC, 7UD, 7UE, 7UF, 7UG, 7UH, 7UI, 7UJ, 7UK, 7UL, 7UM, 7UN, 7UO, 7UP, 7UQ, 7UR, 7US, 7UT, 7UU, 7UV, 7UW, 7UX, 7UY, 7UZ, 7VA, 7VB, 7VC, 7VD, 7VE, 7VF, 7VG, 7VH, 7VI, 7VJ, 7VK, 7VL, 7VM, 7VN, 7VO, 7VP, 7VQ, 7VR, 7VS, 7VT, 7VU, 7VV, 7VW, 7VX, 7VY, 7VZ, 7WA, 7WB, 7WC, 7WD, 7WE, 7WF, 7WG, 7WH, 7WI, 7WJ, 7WK, 7WL, 7WM, 7WN, 7WO, 7WP, 7WQ, 7WR, 7WS, 7WT, 7WU, 7WV, 7WW, 7WX, 7WY, 7WZ, 7XA, 7XB, 7XC, 7XD, 7XE, 7XF, 7XG, 7XH, 7XI, 7XJ, 7XK, 7XL, 7XM, 7XN, 7XO, 7XP, 7XQ, 7XR, 7XS, 7XT, 7XU, 7XV, 7XW, 7XX, 7XY, 7XZ, 7YA, 7YB, 7YC, 7YD, 7YE, 7YF, 7YG, 7YH, 7YI, 7YJ, 7YK, 7YL, 7YM, 7YN, 7YO, 7YP, 7YQ, 7YR, 7YS, 7YT, 7YU, 7YV, 7YW, 7YX, 7YY, 7YZ, 7ZA, 7ZB, 7ZC, 7ZD, 7ZE, 7ZF, 7ZG, 7ZH, 7ZI, 7ZJ, 7ZK, 7ZL, 7ZM, 7ZN, 7ZO, 7ZP, 7ZQ, 7ZR, 7ZS, 7ZT, 7ZU, 7ZV, 7ZW, 7ZX, 7ZY, 7ZZ	$V_{DD} = 5\text{V}$	25	50	100	kΩ	7

\*1 AC 端子は、オプショナルでアルファベット記号を指定した場合の抵抗値

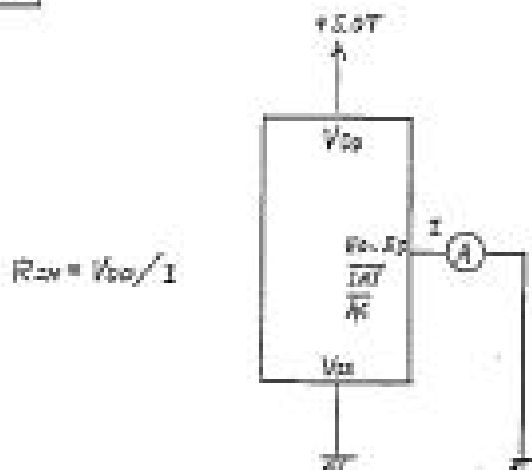
6. 測定回路



5



6



7

