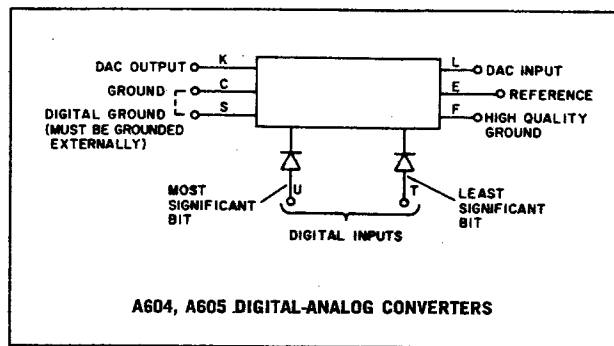


DIGITAL-ANALOG CONVERSION MODULES TYPE A604, 605

A SERIES



The A604 and A605 are two-bit digital-to-analog conversion modules for use with the A601 in forming high resolution, high accuracy converters. Inputs

and outputs are identical to the A601 except that a terminating resistor is not included. Germanium transistors are used.

	A604	A605
ACCURACY:*	$\pm 0.025\%$ of expected value or ± 0.25 mv whichever is greater	$\pm 0.005\%$ of expected value or ± 0.05 mv whichever is greater
TEMPERATURE COEFFICIENT:	± 25 ppm/ $^{\circ}$ C (from $+10^{\circ}$ C to $+45^{\circ}$ C)	± 10 ppm/ $^{\circ}$ C (from $+10^{\circ}$ C to $+45^{\circ}$ C)
OUTPUT IMPEDANCE:	1000 ohms $\pm 0.1\%$	1000 ohms $\pm 0.01\%$
SWITCHING TIME:	300 nsec	1.5 μ sec

* At 25° C includes tolerances of ± 1.5 v on the $+10$ v and -15 v supplies.

SETTLING TIME: The settling time is determined by the capacitive loading at the output. Approximately 10 nsec/pf should be allowed in addition to the switching time.

The following combinations of modules are recommended.

Resolutions (bits)	% of Full Scale	Analog Accuracy (% of Full Scale)	Units (quantity-type)
up to 8	down to 0.39%	0.25%	3-A601
9-10	0.195% to 0.098%	0.082%	1-A604, 3-A601
11	0.049%	0.038%	2-A604, 3-A601
12	0.024%	0.014%	1-A605, 2-A604, 2-A601
13	0.012%	0.01%	2-A605, 2-A604, 2-A601

These modules have been factory aligned; however, for maximum accuracy, the assembled system should be calibrated as a whole. Offset compensation has been made for standard digital-to-analog conversion. Additional offset may be added for analog-to-digital conversion.

Note: See "WIRING" section of reference supplies data sheet.

POWER: A604: $+10$ v/1 ma; $+15$ v/30 ma; -10 v ref/ -10 ma. **A605:** $+10$ v A/1 ma; -15 v/30 ma; -10 v ref/ -9 ma.

See **CAUTION** on A606 specifications.

A604 — \$62.00
A605 — \$78.00