								F	REVISI	IONS										
LTR					D	ESCR	IPTIO	N					DA	ATE (Y	R-MO-D)A)		APPROVED		
А	Char subg and effec	Change to military drawing format. Page 8, table I; change group A subgroup for +V _R and -V _R ; add end-point electrical limits for +V _{RINT} and -V _{RINT} . Page 10; change output offset adjust and temperature effect for device types 03 and 04 trim circuits.				A NT re	86-12-31				W. Heckman									
В	outli	Add device types 05 and 06. Inactivate case outline X. Add case outlines C, Y, and 3. Add vendors CAGE 33256 and 34707. Char drawing CAGE to 67268. Editorial changes throughout.						89-0	8-01			W. He	eckma	n						
С	Chai Edito	nged to	o refle nanges	ct MIL- s throug	·H-385 ghout.	534 pr	ocess	ing. U	lpdate	docur	ment.		92-12-22 K.			(. A. C	. Cottongim			
D	Chai	nges ir	n acco	rdance	with l	NOR 5	5962-F	R212-9	93.					93-0	8-17		K	. A. C	ottong	jin
Е	Chai	nges ir	n acco	rdance	with l	NOR 5	5962-F	R045-9	93.				93-11-18			K. A. Cottongim				
F	Chai	Changes to table I, note 1.										K. A. Cottongim								
	Chai	nges u	o table	e I, note	<u> 1. </u>									99-0	1-08		K	<u> </u>	ottong	<u>qir</u>
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				THE OF	RIGIN/	AL FIR	RST PA	AGE OI	F THIS	S DRAV	ving f	HAS BE	≣EN RI				K	х. А. С	ottong	<u>jin</u>
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URREN EV HEET				THE OF	RIGIN/	AL FIR	RST PA	AGE OI	F THIS	i DRAV	VING H	HAS BE	EEN RI				K	. A. C	ottong	iin

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SHEET	15	16																		
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OF SHEETS				SHE	ET		1	2	3	4	5	6	7	8	9	10	11	12	13	14
STANDARD MICROCIRCUIT				PREPARED BY Donald R. Osborne					DEFENSE SUPPLY CENTER COLUMBUS P. O. BOX 3990 COLUMBUS, OHIO 43216-5000											
			Т	CHECKED BY Ray Monnin							JOLUI	VIDUS.	, Onic	432	10-500					
THIS DRAWIN	DRAWING THIS DRAWING IS AVAILABLE FOR USE BY ALL		BLE	APPROVED BY William K. Heckman				MICROCIRCUIT, HYBRID, LINEAR, PRECISION VOLTAGE REFERENCES, THIN FILM												
AND AGEN	DEPARTMENTS AND AGENCIES OF THE				DRAWING APPROVAL DATE															
DEPARTMENT OF DEFENSE			SE	86-04-28				SIZE		CAGE CODE		85030								
AMSC	AMSC N/A REVISION LEVEL								4	1	14933		1							
					F F			SHE	ET	1		OF	10	6						

1. SCOPE

- 1.1 <u>Scope</u>. This drawing documents one product assurance class, class H (high reliability) and a choice of case outlines and lead finishes are available and are reflected in the Part or Identifying Number (PIN).
 - 1.2 PIN. The PIN shall be as shown in the following example:



1.2.1 <u>Device type(s)</u>. The device type(s) shall identify the circuit function as follows:

Device type	Generic number	<u>Circuit function</u>
01, 02	2700	Precision +10.000-volt reference
03, 04	2702	Precision ±10.000-volt reference
05, 06	2701	Precision -10.000-volt reference

1.2.2 <u>Case outline(s)</u>. The case outline(s) shall be as designated in MIL-STD-1835 and as follows:

Outline letter	Descriptive designator	<u>Terminals</u>	Package style
С	GDIP1-T14 or CDIP1-T14	14	Dual-in-line
Χ	See figure 1	14	Dual-in-line
Υ	See figure 1	14	Dual-in-line
3	CQCC1-N28	28	Square leadless chip-carrier

- 1.2.3 Lead finish. The lead finish shall be as specified in MIL-PRF-38534.
- 1.3 Absolute maximum ratings. 1/

Supply voltage (V _S): V _{CC} (device types 01, 02, 03, 04) V _{EE} (device types 03, 04, 05, 06) Power dissipation (P _D), T _A = +25°C:	+20 V dc -20 V dc
Device types 01, 02, 05, 06	300 mW
Device types 03, 04	450 mW
Storage temperature range	-65° C to +150° C
Lead temperature (soldering, 10 seconds)	+300°C
Short circuit protection (to GND)	Continuous
Thermal resistance:	
Junction-to-case (θ _{JC}):	
Case outlines C and 3	See MIL-STD-1835
Case outline X	7° C/W
Case outline Y	8°C/W
Junction-to-ambient (θ _{JA}):	
Case outline X	30° C/W
Case outline Y	25° C/W

1/ Stresses above the absolute maximum rating may cause permanent damage to the device. Extended operation at the maximum levels may degrade performance and affect reliability.

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1.4 Recommended operating conditions.									
Supply voltage range (V _{CC}) Supply voltage range (V _{EE}) Output current Ambient operating temperature range (T _A)	13.5 V	V dc to +16.5 V dc V dc to -16.5 V dc <u>1</u> / to +125° C							
2. APPLICABLE DOCUMENTS									
2.1 <u>Government specification, standards, and handbook</u> . The following specification, standards, and handbook form a part of this drawing to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto, cited in the solitation.									
SPECIFICATION									
DEPARTMENT OF DEFENSE									
MIL-PRF-38534 - Hybrid Microcircuits, General Specific	ation for.								
STANDARDS									
DEPARTMENT OF DEFENSE									
MIL-STD-883 - Test Methods and Procedures for Microelectronics. MIL-STD-973 - Configuration Management. MIL-STD-1835 - Microcircuit Case Outlines.									
HANDBOOK									
DEPARTMENT OF DEFENSE									
MIL-HDBK-780 - Standard Microcircuit Drawings.									
(Unless otherwise indicated, copies of the specification, stand Document Order Desk, 700 Robbins Avenue, Building 4D, Phila			Standardization						
2.2 <u>Order of precedence</u> . In the event of a conflict between to of this drawing takes precedence. Nothing in this document, ho specific exemption has been obtained.									
3. REQUIREMENTS									
3.1 <u>Item requirements</u> . The individual item performance requirements for device class H shall be in accordance with MIL-PRF-38534. Compliance with MIL-PRF-38534 may include the performance of all tests herein or as designated in the device manufacturer's Quality Management (QM) plan or as designated for applicable device class. Therefore, the tests and inspections herein may not be performed for applicable device class (see MIL-PRF-38534). Futhermore, the manufacturers may take exceptions or use alternate methods to the tests and inspections herein and not perform them. However, the performance requirements as defined in MIL-PRF-38534 shall be met for the applicable device class. The modification in the QM plan shall not affect the form, fit, or function as described herein.									
3.2 <u>Design, construction, and physical dimensions</u> . The desi in MIL-PRF-38534 and herein.	gn, construction, a	and physical dimensions sh	nall be as specified						
1/ With resistive load to pin 7 (common).									
STANDARD MICROCIRCUIT DRAWING	SIZE A		85030						
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- 3.2.1 Case outline(s). The case outline(s) shall be in accordance with 1.2.2 herein and figure 1.
- 3.2.2 Terminal connections. The terminal connections shall be as specified on figure 2.
- 3.2.3 Trim circuits. The trim circuits shall be as specified on figure 3.
- 3.3 <u>Electrical performance characteristics</u>. Unless otherwise specified herein, the electrical performance characteristics are as specified in table I and shall apply over the full specified operating temperature range.
- 3.4 <u>Electrical test requirements</u>. The electrical test requirements shall be the subgroups specified in table II. The electrical tests for each subgroup are defined in table I.
- 3.5 <u>Marking of device(s)</u>. Marking of device(s) shall be in accordance with MIL-PRF-38534. The device shall be marked with the PIN listed in 1.2 herein. In addition, the manufacturer's vendor similar PIN may also be marked as listed in QML-38534.
- 3.6 <u>Data</u>. In addition to the general performance requirements of MIL-PRF-38534, the manufacturer of the device described herein shall maintain the electrical test data (variables format) from the initial quality conformance inspection group A lot sample, for each device type listed herein. Also, the data should include a summary of all parameters manually tested, and for those which, if any, are guaranteed. This data shall be maintained under document revision level control by the manufacturer and be made available to the preparing activity (DSCC-VA) upon request.
- 3.7 <u>Certificate of compliance</u>. A certificate of compliance shall be required from a manufacturer in order to supply to this drawing. The certificate of compliance (original copy) submitted to DSCC-VA shall affirm that the manufacturer's product meets the performance requirements of MIL-PRF-38534 and herein.
- 3.8 <u>Certificate of conformance</u>. A certificate of conformance as required in MIL-PRF-38534 shall be provided with each lot of microcircuits delivered to this drawing.

4. QUALITY ASSURANCE PROVISIONS

- 4.1 <u>Sampling and inspection</u>. Sampling and inspection procedures shall be in accordance with MIL-PRF-38534 or as modified in the device manufacturer's Quality Management (QM) plan. The modification in the QM plan shall not affect the form, fit, or function as described herein.
 - 4.2 Screening. Screening shall be in accordance with MIL-PRF-38534. The following additional criteria shall apply:
 - a. Burn-in test, method 1015 of MIL-STD-883.
 - (1) Test condition A, B, C, or D. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to either DSCC-VA or the acquiring activity upon request. Also, the test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in test method 1015 of MIL-STD-883.
 - (2) T_A as specified in accordance with table I of method 1015 of MIL-STD-883.
 - b. Interim and final electrical test parameters shall be as specified in table II herein, except interim electrical parameter tests prior to burn-in are optional at the discretion of the manufacturer.

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Test	Symbol	Conditior -55° C ≤ T _A ≤ unless otherwise	<u><</u> +125° C	Group A subgroups	Device type	Limits Min Max		Unit
Selection output	11/0	+10.000 V output	e specilieu	4	01			mV
error <u>2</u> /	+VR	+10.000 v output		-	_ 01	-5.0	+5.0	IIIV
		+10.000 V output +10.000 V output		5, 6	02, 04	-8.0	+8.0	
				4	_ 02, 04	-2.5	+2.5	
				5, 6		-5.5	+5.5	
				4	_ 03	-5.0	+5.0	
			5, 6	-10		+10		
	-V _R	-10.000 V output		4	03, 05	+5.0	-5.0	
				5, 6		+10	-10	
		-10.000 V output		4	04, 06	+2.5	-2.5	
				5, 6		+5.5	-5.5	
Interim output error	+VRINT	+10.000 V output T _A = +25° C	Initial	_ 1	01, 02, 03, 04	5	+5	
enoi		1A = +20 C	End-point		03, 04	-10	+10	
	-VRINT	-10.000 V output	Initial	_ 1	03, 04,	+5	-5	
		T _A = +25°C	End-point		05, 06	+10	-10	
Output adjust range for trim	+VRADJ	+10.000 V output, T,	_A = +25°C	1	01, 02, 03, 04	-20	+20	
circuits (see figure 3)	-VRADJ	-10.000 V output, Тд	1	03, 04, 05, 06	+20	-20		
Quiescent current	ICC	V _{CC} = +15 V, no loa T _A = +25° C	ıd,	1	01, 02		+14	mA
		V _{CC} = +15 V V _{EE} = -15 V, no load T _A = +25° C	d	1	03, 04		+17	
	IEE	V _{CC} = +15 V, no loa VEE = -15 V T _A = +25°C	ad	1	03, 04		-4	
		V _{EE} = -15 V, no load T _A = +25° C	d	1	05, 06		-14	

See footnotes at end of table.

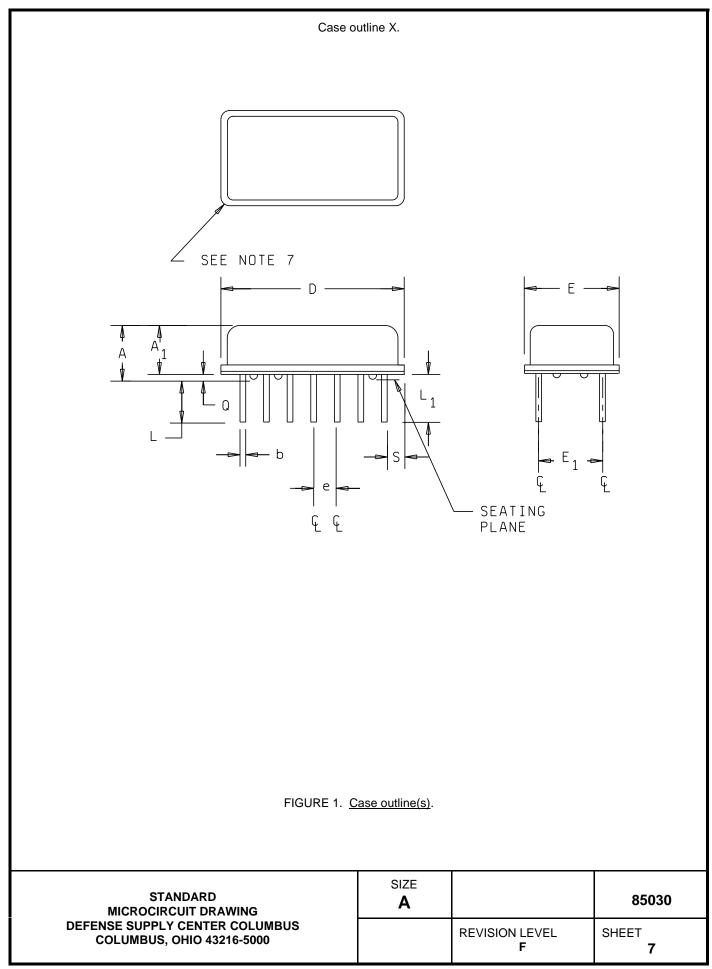
STANDARD MICROCIRCUIT DRAWING	SIZE A		85030
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		TABLE I. Electrical performance cl	naracteristics	- Continued			
Test	Symbol	Conditions $1/$ Group A Device type		Limits		Unit	
-		unless otherwise specified		,,	Min	Max	
Line regulation	+V _{RL}	+10 V output, $T_A = +25^{\circ} C$, +13.5 V \leq V _{CC} \leq +16.5 V	1	01, 02, 03, 04	-900	+900	μV
	-V _{RL}	-10.000 V output, T _A = +25°C, -13.5 V ≤ V _{EE} ≤ -16.5 V	1	03, 04, 05, 06	+900	-900	
Load regulation	+VRLOAD	+10.000 V output, $T_A = +25^{\circ}C$, $0 \le I_L \le 10 \text{ mA}$	1	01, 02, 03, 04	-500	+500	μV
	-VRLOAD	-10.000 V output, $T_A = +25^{\circ}C$, $0 \le I_L \le 10$ mA	1	03, 04, 05, 06	+500	-500	_
Output current	+1_		1	01, 02,	10		mA
			2, 3	03, 04	5		
	-1_		1	03, 04,		10	
			2, 3	05, 06		5	
Output noise 3/		V _{OUT} = 10 V, no load, 0.1 Hz ≤ BW ≤ 10 Hz, T _A = +25° C	4	01, 02, 03, 04, 05, 06		150	μV/ p-p

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Unless otherwise specified, V_{IN} = +15 V, R_L = 2 k Ω to pin 7 (common). Output voltage change as a function of temperature is determined using the box method. Each device is tested at -55°C, +25°C, and +125°C. At each temperature the output voltage (V_{OUT}) must fall within the rectangular area bounded by the minimum and maximum temperatures. This method gives a maximum temperature coefficient of 9 ppm/°C and a typical value of 3 ppm/° C.

Parameter shall be tested as part of device initial characterization and after design and process changes. Parameter shall be guaranteed to limits specified in table I for all lots not specifically tested.



Case outline X - Continued.

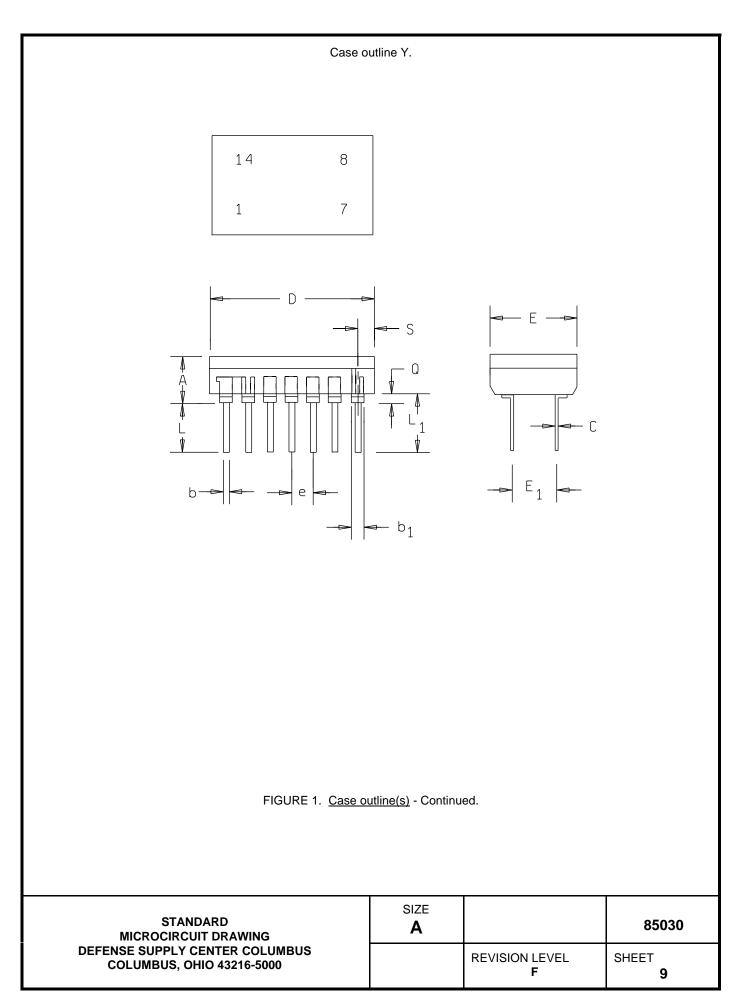
Dimensions					
Symbol	Inche	S	Millimete	ers	Notes
	Min	Max	Min	Max	
A	.215	.250	5.46	6.35	
A ₁	.175	.215	4.44	5.46	
b	.016	.020	0.41	0.51	8
Фь	.016	.020	0.41	0.51	4
D	.860	.885	21.84	22.48	4
E	.490	.520	12.45	13.21	7
E ₁	.295	.305	7.49	7.75	
е	.100 B	SC	2.54 BSC		5, 8
L	.130	.255	3.30	6.48	
L ₁	.150	.290	3.81	7.37	
Q	.020	.035	0.51	0.89	3
S	.100	.160	2.54	4.07	
S ₁	.080	.180	2.03	4.57	
_ α	0°	15°	0°	15°	

NOTES:

- 1. Index area: A notch, square-package corner, or a pin one index point shall be located adjacent to pin one and within the shaded area shown. The manufacturer's identification shall not be used as a pin one identification mark.
- 2. Dimension Q shall be measured from the seating plane to the base plane.
- 3. This dimension allows for off-center lid, meniscus, and weld squash.
- 4. The basic pin spacing is .100 inch (2.54 mm) between centerlines. Each pin centerline shall be located within ±.010 inch (0.25 mm) of its exact longitudinal position relative to pins 1 and 14.
- 5. Dimension S₁ is not used.
- 6. Lead center when $a = 0^{\circ}$. E_1 shall be measured at the centerline of the leads (see MIL-STD-1835).
- 7. All leads: Increase maximum limit by .003 inch (0.08 mm) measured at the widest diameter when lead finish A or B is applied.
- 8. If this configuration is used, no polymer or organic materials shall be applied or molded to the bottom of the package or cover the leads.

FIGURE 1. Case outline(s) - Continued.

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Case outline Y - Continued.

Dimensions					
Symbol	Inches		Millimeters		Notes
	Min	Max	Min	Max	
A	.140	.200	3.56	5.08	
b	.014	.023	0.36	0.58	
b ₁	.030	.070	0.76	1.78	2
С	.008	.015	0.20	0.38	
D	.770	.810	19.56	20.57	
E	.480	.510	12.19	12.95	
E ₁	.295	.305	7.49	7.75	6
е	0.100 B	SC	2.54 BSC		4, 7
L	.150	.200	3.81	5.08	
L ₁	.180		4.57		
Q	.015	.035	0.38	0.89	3
S		.137		3.48	5
S ₁	.060		1.52		5

NOTES:

- Index area: A notch or a lead one identification mark is located adjacent to lead one.
 The minimum limit for dimension b₁ may be .023 inch (0.58 mm) for all four corner leads only.
- Dimension Q shall be measured from the seating plane to the base plane.
- 4. The basic pin spacing is .100 inch (2.54 mm) between centerlines.
- 5. Applies to all four corners.
- 6. E₁ shall be measured at the centerline of all the leads.

FIGURE 1. Case outline(s) - Continued.

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Device types 01 and 02.

Device types 03 and 04.

	2700	
Terminal number	Terminal symbol	
Case outlines	C, X, Y	Z
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	NC NC NC NC NC NC NC NC TEST POINT VCC +10 V ADJ +10 V ADJ	VO SEN -IN REF GND GND SEN NC

Terminal number Terminal symbol Case outlines C, X, Y Z 1 -10 V ADJ - IN - I		2702	
outlines C, X, Y Z 1 -10 V ADJ VO SEN 2 -10 V OUT -IN 3 -10 V ADJ REF GND 4 VFF GND SEN			
2 -10 V OUT -IÑ 3 -10 V ADJ REF GND 4 VFF GND SEN		C, X, Y	Z
5	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	-10 V OUT -10 V ADJ VEE NC NC GND NC TEST POINT VCC +10 V ADJ +10 V OUT	-IÑ REF GND GND SEN NC NC -VOS -VOS VEE +IN VCC NC -IN VO FORCE -10 V REF OUT VO SENSE +10 V IN VZ ZENER GND NC NC NC VOS VOS POWER GND VCC +IN VO FORCE

FIGURE 2. <u>Terminal connections</u>.

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Device types 05 and 06.

2701					
Terminal number	Termina symbol	I			
Case outlines	C, X, Y	Z			
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	NC NC NC NC NC GND NC TEST POINT VEE -10 V ADJ -10 V ADJ	NC NC REF GND GND SENSE NC NC -VOS -VOS VEE +IN NC PWR GND -IN VO FORCE VO SENSE NC VO SENSE NC VZ ZENER GND NC			

FIGURE 2. <u>Terminal connections</u> - Continued.

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Device types 01 and 02. +15 V 11 2700 7 12 14 + 10 k \(\) SEE NOTE 1

Device types 03 and 04.

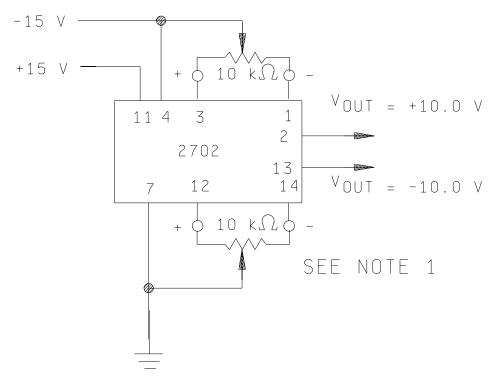
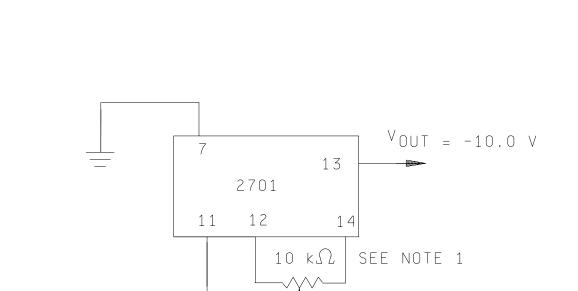


FIGURE 3. Trim circuit(s).

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Device types 05 and 06.

NOTES:

- External 10 kΩ potentiometer provides a ±20 mV minimum output offset adjust. Temperature effect is 4 μV/°C per mV of offset correction (external adjustment optional).
 Dual-in-line package only.

FIGURE 3. <u>Trim circuit(s)</u> - Continued.

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TABLE II. Electrical test requirements.

MIL-PRF-38534 test requirements	Subgroups (in accordance with MIL-PRF-38534, group A test table)
Interim electrical parameters	
Final electrical parameters	1*, 2, 3, 4
Group A test requirements	1, 2, 3, 4, 5, 6
Group C end-point electrical parameters	1

^{*} PDA applies to subgroup 1.

- 4.3 <u>Conformance and periodic inspections</u>. Conformance inspection (CI) and periodic inspection (PI) shall be in accordance with MIL-PRF-38534 and as specified herein.
 - 4.3.1 Group A inspection (CI). Group A inspection shall be in accordance with MIL-PRF-38534 and as follows:
 - a. Tests shall be as specified in table II herein.
 - b. Subgroups 7, 8, 10, and 11 shall be omitted.
 - 4.3.2 Group B inspection (PI). Group B inspection shall be in accordance with MIL-PRF-38534.
 - 4.3.3 Group C inspection (PI). Group C inspection shall be in accordance with MIL-PRF-38534 and as follows:
 - a. End-point electrical parameters shall be as specified in table II herein.
 - b. Steady-state life test, method 1005 of MIL-STD-883.
 - (1) Test condition A, B, C, or D. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to either DSCC-VA or the acquiring activity upon request. Also, the test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in test method 1005 of MIL-STD-883.
 - (2) T_A as specified in accordance with table I of method 1005 of MIL-STD-883.
 - (3) Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.
 - 4.3.4 Group D inspection (PI). Group D inspection shall be in accordance with MIL-PRF-38534.

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- 5. PACKAGING
- 5.1 Packaging requirements. The requirements for packaging shall be in accordance with MIL-PRF-38534.
- 6. NOTES
- 6.1 <u>Intended use</u>. Microcircuits conforming to this drawing are intended for use for Government microcircuit applications (original equipment), design applications, and logistics purposes.
- 6.2 <u>Replaceability</u>. Microcircuits covered by this drawing will replace the same generic device covered by a contractor-prepared specification or drawing.
- 6.3 <u>Configuration control of SMD's</u>. All proposed changes to existing SMD's will be coordinated with the users of record for the individual documents. This coordination will be accomplished in accordance with MIL-STD-973 using DD Form 1692, Engineering Change Proposal.
- 6.4 <u>Record of users</u>. Military and industrial users shall inform Defense Supply Center Columbus when a system application requires configuration control and the applicable SMD. DSCC will maintain a record of users and this list will be used for coordination and distribution of changes to the drawings. Users of drawings covering microelectronic devices (FSC 5962) should contact DSCC-VA, telephone (614) 692-7603.
- 6.5 <u>Comments</u>. Comments on this drawing should be directed to DSCC-VA, P. O. Box 3990, Columbus, Ohio 43216-5000, or telephone (614) 692-0676.
- 6.6 <u>Sources of supply</u>. Sources of supply are listed in QML-38534. The vendors listed in QML-38534 have submitted a certificate of compliance (see 3.7 herein) to DSCC-VA and have agreed to this drawing.

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STANDARD MICROCIRCUIT DRAWING SOURCE APPROVAL BULLETIN

DATE: 99-01-08

Approved sources of supply for SMD 85030 are listed below for immediate acquisition only and shall be added to QML-38534 during the next revision. QML-38534 will be revised to include the addition or deletion of sources. The vendors listed below have agreed to this drawing and a certificate of compliance has been submitted to and accepted by DSCC-VA. This bulletin is superseded by the next dated revision of QML-38534.

		T
Standard	Vendor	Vendor
microcircuit drawing	CAGE	similar
PIN <u>1</u> /	number	PIN <u>2</u> /
8503001CA	33256	HS2700SD
8505001CC	33256	HS2700SD
8503001XX	<u>3/</u>	2700SD/883B
8503001YA	33256	HS2700SD
8503001YC	33256	HS2700SD
8503001YX	<u>3/</u>	2700SD/883B
8503001YA	34707	HC2700SD/883B
85030013A	34707	HC2700SLCC/883B
8503002CA	33256	HS2700UD
8503002CC	33256	HS2700UD
8503002XX	3/	2700UD/883B
8503002YA	33256	HS2700UD
8503002YC	33256	HS2700UD
8503002YX	3/	2700UD/883B
8503002YA	34707	HC2700UD/883B
85030023A	34707	HC2700ULCC/883B
8503003CA 8503003CC 8503003XX 8503003YA 8503003YC 8503003YX 8503003YA 85030033A	33256 33256 <u>3/</u> 33256 33256 <u>3/</u> 34707 34707	HS2702SD HS2702SD 2702SD/883B HS2702SD HS2702SD 2702SD/883B HC2702SD/883B
8503004CA	33256	HS2702UD
8503004CC	33256	HS2702UD
8503004XX	3/	2702UD/883B
8503004YA	33256	HS2702UD
8503004YC	33256	HS2702UD
8503004YX	3/	2702UD/883B
8503004YA	34707	HC2702UD/883B
85030043A	34707	HC2702ULCC/883B

^{1/} The lead finish shown for each PIN, representing a hermetic package, is the most readily available from the manufacturer listed for that part. If the desired lead finish is not listed contact the Vendor to determine availability.

^{2/ &}lt;u>Caution</u>. Do not use this number for item acquisition. Items acquired to this number may not satisfy the performance requirements of this drawing.

^{3/} Not available from a QML source.

STANDARD MICROCIRCUIT DRAWING SOURCE APPROVAL BULLETIN - Continued.

DATE: 99-01-08

Standard microcircuit drawing PIN <u>1</u> /	Vendor CAGE number	Vendor similar PIN <u>2</u> /
8503005CA 8503005CC 8503005XX 8503005YA 8503005YC 8503005YA 8503005YC 8503005YA 85030053A	33256 33256 <u>3/</u> 33256 33256 34031 34031 34707 34707	HS2701SD HS2701SD 2701SD/883B HS2701SD HS2701SD 2701SD/883B 2701SD/883B HC2701SD/883B
8503006CA 8503006CC 8503006XX 8503006YA 8503006YC 8503006YA 8503006YC 8503006YA 85030063A	33256 33256 <u>3/</u> 33256 33256 34031 34031 34707 34707	HS2701UD HS2701UD 2701UD/883B HS2701UD HS2701UD 2701UD/883B 2701UD/883B HC2701UD/883B

- 1/ The lead finish shown for each PIN, representing a hermetic package, is the most readily available from the manufacturer listed for that part. If the desired lead finish is not listed contact the Vendor to determine availability.
- 2/ <u>Caution</u>. Do not use this number for item acquisition. Items acquired to this number may not satisfy the performance requirements of this drawing.
- 3/ Not available from a QML source.

Vendor CAGE <u>number</u>	Vendor name and address
33256	Sipex Corporation Hybrid Systems Division 22 Linnell Circle Billerica, CA 01821-3985
34031	Analog Devices, Incorporated 7910 Triad Center Drive Greensboro, NC 27409-9605
34707	Hycomp, Incorporated 165 Cedar Hill Street Marlborough, MA 01752-3035

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