						RE	VISIONS										
LTR				DESCF	RIPTIO	N				DA	ATE (Y	R-MO-D	A)		APPF	ROVED	,
А	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.					2-31			W. He	eckmar	1						
В	outlin	device type es C, Y, a ng CAGE	nd 3. Add	vendors	CAGE	33256 a	and 34707	d case . Char	nge		89-0	3-01			W. He	eckmar	1
С		ged to refl rial change			rocessi	ing. Upd	date docur	nent.			92-1	2-22		K	(. A. C	ottong	m
D Changes in accordance with NOR 5962-R212-93.						93-0	3-17		K	. A. C	ottongi	m					
Е	Changes in accordance with NOR 5962-R045-93.				93-1	1-18		K	. A. C	ottongi	m						
F	Changes to table I, note 1.											K. A. Cottongim					
Г	<u> </u>	ges to tab	<u>e I, note 1</u>								99-0	<u>1-08</u>		<u>K</u>	<u> </u>	ottong	m
			THE ORI	SINAL FIF	RST PA	AGE OF T	ΓHIS DRAV	VING H	IAS BE	EEN RI				K	. A. C	ottong	im
		GE COD	THE ORI	SINAL FIF	RST PA	AGE OF T	THIS DRAV	VING H	IAS BE	EEN RI				K	. A. C	ottong	<u>m</u>
			THE ORI	SINAL FIF	RST PA	AGE OF T	ΓHIS DRAV	VING H	IAS BE	EEN RI				K	. A. C	ottong	<u></u>
URREN EV HEET	NT CAG	SE COD	THE ORI	SINAL FIF	RST PA	AGE OF T	THIS DRAV	VING H	IAS BE	EEN RI				K	a. A. C	ottong	<u>m</u>
URREN			THE ORI	SINAL FIF	RST PA	AGE OF T	THIS DRAV	VING H	IAS BE	EEN RI				K	a. A. C	ottong	<u></u>

3

4

THIS DRAWING IS AVAILABLE
FOR USE BY ALL
DEPARTMENTS
AND AGENCIES OF THE
DEPARTMENT OF DEFENSE

APPROVED BY
William K. Heckman

DRAWING APPROVAL DATE
86-04-28

REV

SHEET

PREPARED BY

CHECKED BY

Ray Monnin

REVISION LEVEL

F

Donald R. Osborne

DEFENSE SUPPLY CENTER COLUMBUS P. O. BOX 3990 COLUMBUS, OHIO 43216-5000

MICROCIRCUIT, HYBRID, LINEAR, PRECISION

VOLTAGE REFERENCES, THIN FILM

10

11

12

13

14

SIZE CAGE CODE **85030**SHEET 1 OF 16

AMSC N/A

REV STATUS

OF SHEETS

PMIC N/A

STANDARD

MICROCIRCUIT

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	Circuit function		
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})	13.5 5 mA	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 of this drawing to the extent specified herein. Unless otherwise issue of the Department of Defense Index of Specifications and solitation.	specified, the is:	sues of these documents are	those listed in the
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 Micro MIL-STD-973 - Configuration Management. MIL-STD-1835 - Microcircuit Case Outlines.	oelectronics.		
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 red MIL-PRF-38534. Compliance with MIL-PRF-38534 may include device manufacturer's Quality Management (QM) plan or as desinspections herein may not be performed for applicable device may take exceptions or use alternate methods to the tests and in performance requirements as defined in MIL-PRF-38534 shall be QM plan shall not affect the form, fit, or function as described here.	the performanc signated for appl class (see MIL-P nspections here e met for the ap	e of all tests herein or as de cable device class. Therefo RF-38534). Futhermore, the n and not perform them. Ho	signated in the are, the tests and a manufacturers awever, the
3.2 <u>Design, construction, and physical dimensions</u> . The desi in MIL-PRF-38534 and herein.	gn, construction	and physical dimensions sh	nall be as specified
1/ With resistive load to pin 7 (common).			
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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	Conditions $1/$ -55° C \leq T _A \leq +125° C		Group A subgroups	Device type	Limits		Unit
		unless otherwise	e specified			Min	Max	
Selection output error <u>2</u> /	+V _R	+10.000 V output		4	01	-5.0	+5.0	mV
enor <u>z</u> /				5, 6		-8.0	+8.0	
		+10.000 V output		4	02, 04	-2.5	+2.5	
				5, 6		-5.5	+5.5	
		+10.000 V output		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	_ 01,00	+5.5	-5.5	
Intorino quitorri	+VRINT	+10.000 V output T _A = +25°C	Initial	1	01, 02,			
Interim output error			Initial	-	03, 04	-5	+5	
	.,		End-point			-10	+10	
	-VRINT	-10.000 V output $T_A = +25^{\circ} C$	Initial	_	03, 04, 05, 06	+5	-5	
			End-point			+10	-10	
Output adjust range for trim	+VRADJ	+10.000 V output, T _A = +25° C -10.000 V output, T _A = +25° C		1	01, 02, 03, 04	-20	+20	
circuits (see figure 3)	-VRADJ			1	03, 04, 05, 06	+20	-20	
Quiescent current	ICC	V _{CC} = +15 V, no load, T _A = +25°C		1	01, 02		+14	mA
		V _{CC} = +15 V V _{EE} = -15 V, no load T _A = +25°C	d	1	03, 04		+17	
	I _{EE}	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.

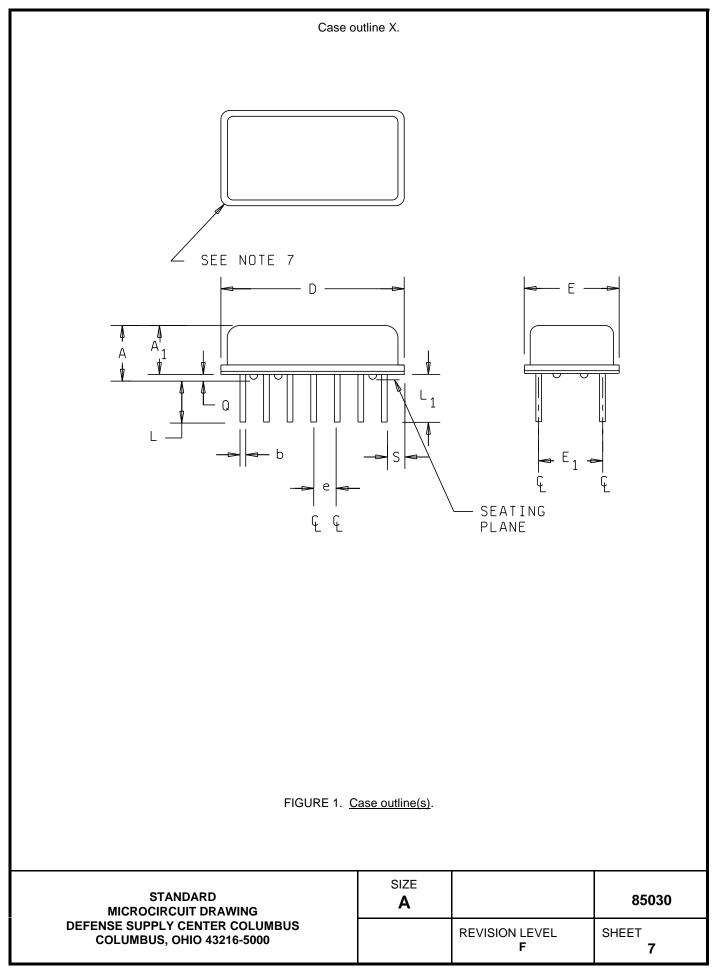
STANDARD MICROCIRCUIT DRAWING	SIZE A		85030
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	-	TABLE I. Electrical performance c	naracteristics	- Continued			
Test	Symbol	Conditions $\underline{1}/$ -55° C \leq T _A \leq +125° C	Group A subgroups	Device type	Li	mits	Unit
-		unless otherwise specified	oubgioupo	1,700	Min	Max	
Line regulation	+V _{RL}	+10 V output, $T_A = +25^{\circ} C$, +13.5 V \leq VCC \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°C, 0 ≤ I _L ≤ 10 mA	1	03, 04, 05, 06	+500	-500	
Output current	+1_		1	01, 02,	10		mA
·			2, 3	03, 04	5		
	-IL		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.

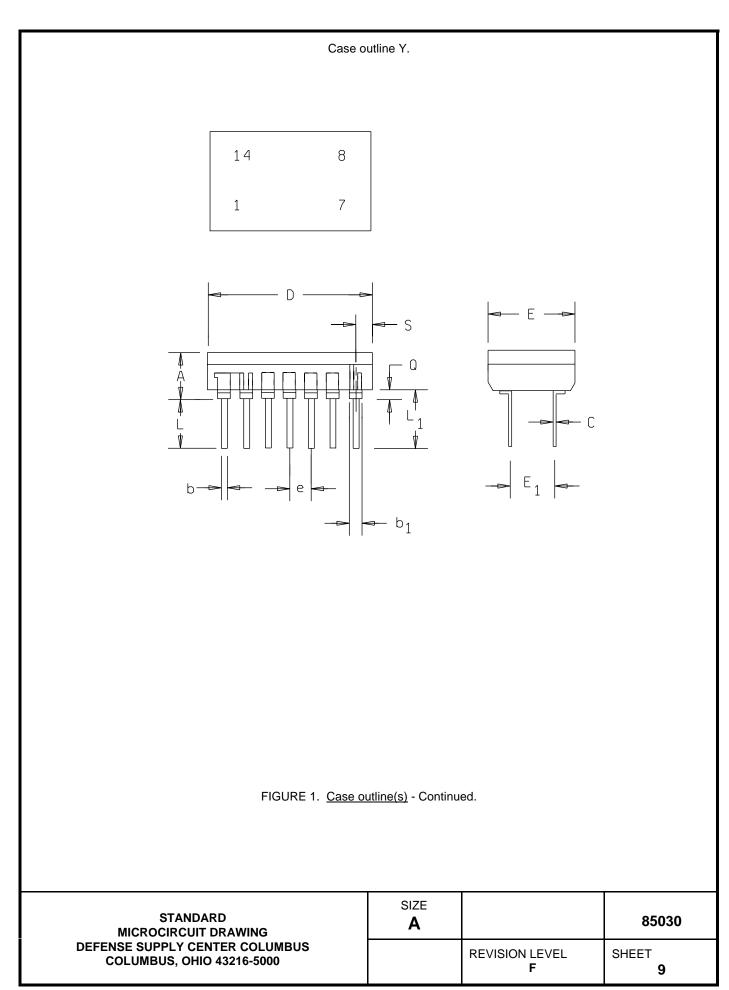
Dimensions							
Symbol	Inche	S	Millimet	Millimeters			
	Min	Max	Min	Max			
A	.215	.250	5.46	6.35			
A ₁	.175	.215	4.44	5.46			
b	.016	.020	0.41	0.51	8		
ФЬ	.016	.020	0.41	0.51	4		
D	.860	.885	21.84	22.48	4		
E	.490	.520	12.45	13.21	7		
E ₁	.295	.305	7.49	7.75			
е	.100 B	SC	2.54 BS	SC .	5, 8		
L	.130	.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
C	.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
e	0.100 B	SC	2.54 BS	SC .	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:

- 1. Index area: A notch or a lead one identification mark is located adjacent to lead one.
- 2. The minimum limit for dimension b₁ may be .023 inch (0.58 mm) for all four corner leads only.
- 3. 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 NC TEST POINT VCC +10 V ADJ +10 V ADJ	VO SEN -IN REF GND GND SEN NC

	2702	
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	-10 V ADJ -10 V OUT -10 V ADJ VEE NC NC GND NC TEST POINT VCC +10 V ADJ +10 V OUT +10 V ADJ	VO SEN -IN 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 VOS VOS POWER GND VCC +IN VO FORCE +10 V REF OUT

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

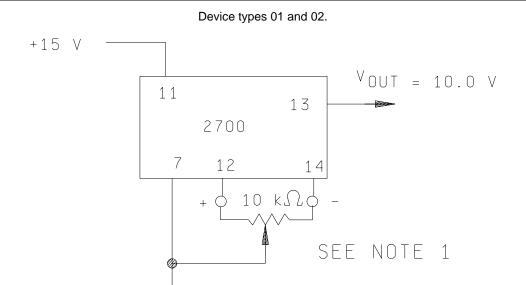
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Device types 05 and 06.

2701			
Terminal number	Termina symbol	l 	
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 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 VZ ZENER GND NC	

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

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Device types 03 and 04.

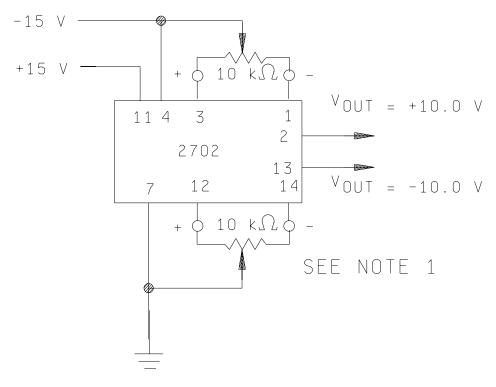
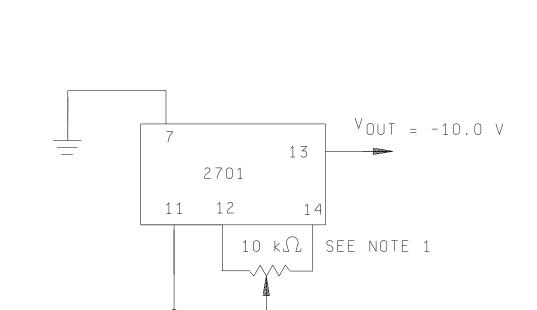


FIGURE 3. Trim circuit(s).

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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.

STANDARD
MICROCIRCUIT DRAWING
DEFENSE SUPPLY CENTER COLUMBUS
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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.

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 8503002CC 8503002XX 8503002YA 8503002YC 8503002YX 8503002YA 85030023A	33256 33256 3/ 33256 33256 3/ 34707 34707	HS2700UD HS2700UD 2700UD/883B HS2700UD HS2700UD 2700UD/883B HC2700UD/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	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 <u>and address</u>
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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