	REVISIONS		1
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVE
A <u>查</u>	制备962m8670401345点面 vendor CAGE U4637. Editorial changes throughout.	87-04-16	M. A. Frye
В	Add device types 02, 03, and 04. Editorial changes throughout.	87-12-21	M. A. Frye
С	Change vendor CAGE 12969 to 48726. Change max duty cycle min limit. Add vendor CAGE U4637 for additional devices, also change name from Integrated Power to Seagate Microelectronics. Add vendor CAGE 34333 for additional devices. Add testing for delay to output, rise time, and fall time tests. Editorial change throughout.	89-10-10	M. A. Frye
D	Add packages C, E, F, 2, H, and X. Change unity gain bandwidth limit. Editorial changes throughout.	92-11-23	M.A. FRYE
E	Add device types 05, 06, 07, and 08. Add vendor CAGE 48726 for device type 05, 06, 07, and 08. Changes to table I electricals. Delete vendor CAGE U4637 from drawing. Add vendor CAGE U3158. Editorial changes throughout.	93-09-10	M.A. FRYE

THE ORIGINAL FIRST PAGE OF THIS DRAWING HAS BEEN REPLACED.

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PMIC N/A  PREPARED BY  Joseph A. Kerby			DEFENSE ELECTRONICS SUPPLY CENTER DAYTON, OHIO 45444											
STANDARDIZED MILITARY DRAWING	CHECKED BY Ray Monnin								· · · <u>- · · · · · · · · · · · · · · · ·</u>					
THIS DRAWING IS AVAILABLE FOR USE BY ALL DEPARTMENTS	APPROVED BY Michael A. Frye  DRAWING APPROVAL DATE 86-11-10					MICROCIRCUIT, LINEAR, PROGRAMMABI PRIMARY SIDE PULSE WIDTH MODULATOR, MONOLITHIC SILICON							BLE	
AND AGENCIES OF THE DEPARTMENT OF DEFENSE						HODGERION, MONOBILITIE STEECON								
AMSC N/A	REVISION LEVEL					SIZE A		CAGE CODE 14933			59 <i>6</i>	52-8	6704	
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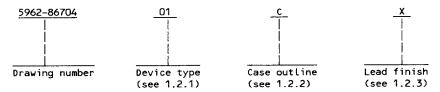
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1. SCOPE

MIL-STD-883, "Provisions for the use of MIL-STD-883 in conjunction with compliant non-JAN devices".

1.2 Part or Identifying Number (PIN). The complete PIN shall be as shown in the following example:



1.2.1 Device types. The device types shall identify the circuit function as follows:

Device type	Generic number	Circuit function
01	1842	Off-line current mode pulse width modulator controller
02	1843	Off-line current mode pulse width modulator controller
03	1844	Off-line current mode pulse width modulator controller
04	1845	Off-line current mode pulse width modulator controller
05	1842A	Off-line current mode pulse width modulator controller
06	1843A	Off-line current mode pulse width modulator controller
07	1844A	Off-line current mode pulse width modulator controller
08	1845A	Off-line current mode pulse width modulator controller

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

Outline letter	Descriptive designator	<u>Terminals</u>	Package style
С	GDIP1-T14 or CDIP2-T14	14	Dual-in-line
E	GDIP1-T16 or CDIP2-T16	16	Dual-in-line
F	GDFP2-F16 or CDFP3-F16	16	Flat pack
Н	GDFP1-F10 or CDFP2-F10	10	Flat pack
P	GDIP1-T8 OR CDIP2-T8	8	Dual-in-line
X	cqcc1-N2O	20	Square leadless chip carrier
2	CQCC1-N2O	20	Square leadless chip carrier

1.2.3 Lead finish. The lead finish shall be as specified in MIL-M-38510. Finish letter "X" shall not be marked on the microcircuit or its packaging. The "X" designation is for use in specifications when lead finishes A, B, and C are considered acceptable and interchangeable without preference.

1.3 Absolute maximum ratings. 1/2/

Supply voltage (V <sub>CC</sub> )	30 V
Output current	±1.0 A
Output energy (capacitive load)	5.0 µJ
Analog input voltage (pins 2 and 3)	-0.3 V to +6.3 V
Error amplifier output sink current	10 mA
Power dissipation (PD)(TA = +25°C) Thermal resistance, junction-to-case ( $\Theta_{\rm JC}$ )	1.0 W <u>3</u> /
Thermal resistance, junction-to-case $(\Theta_{1r})$	See MIL-STD-1835
Storage temperature range	-65°C to +150°C
Lead temperature (soldering, 10 seconds)	+300°c
Junction temperature (T <sub>J</sub> )	+150°C

All voltages are with respect to ground, and all currents are positive when flowing into the 1/ specified terminal.

2/ All references to pin numbers are for case outline P.

Derate at 8.0 mW/°C above  $T_A = +25^{\circ}\text{C}$  for case P, 10 mW/°C above  $T_A = +50^{\circ}\text{C}$  for cases C and E, 8.7 mW/°C above  $T_A = +25^{\circ}\text{C}$  for case F, 9.0 mW/°C above  $T_A = +40^{\circ}\text{C}$  for cases 2 and X, and 6.9 mW/°C above  $T_A = +25^{\circ}\text{C}$  for case H. 3/

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1.4 Recommended operating conditions.

- 2. APPLICABLE DOCUMENTS
- 2.1 <u>Government specification, standards, and bulletin</u>. Unless otherwise specified, the following specification, standards, and bulletin of the issue listed in that issue of the Department of Defense Index of Specifications and Standards specified in the solicitation, form a part of this drawing to the extent specified herein.

SPECIFICATION

MILITARY

MIL-M-38510

- Microcircuits, General Specification for.

STANDARD

MILITARY

MIL-STD-883

Test Methods and Procedures for Microelectronics.

MIL-STD-1835

- Microcircuit Case Outlines.

BULLETIN

MILITARY

MIL-BUL-103

- List of Standardized Military Drawings (SMD's).

(Copies of the specification, standards, and bulletin required by manufacturers in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting activity.)

- 2.2 <u>Order of precedence</u>. In the event of a conflict between the text of this drawing and the references cited herein, the text of this drawing shall take precedence.
  - 3. REQUIREMENTS
- 3.1 <u>Item requirements</u>. The individual item requirements shall be in accordance with 1.2.1 of MIL-STD-883, "Provisions for the use of MIL-STD-883 in conjunction with compliant non-JAN devices" and as specified herein.
- 3.2 <u>Design, construction, and physical dimensions</u>. The design, construction, and physical dimensions shall be as specified in MIL-M-38510 and herein.
  - 3.2.1 <u>Case outline(s)</u>. The case outline(s) shall be in accordance with 1.2.2 herein.
  - 3.2.2 <u>Terminal connections</u>. The terminal connections shall be as specified on figure 1.
  - 3.2.3 Logic diagram. The logic diagram shall be as specified on figure 2.
- 3.3 <u>Electrical performance characteristics</u>. Unless otherwise specified, the electrical performance characteristics are as specified in table I and apply over the full ambient 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 described in table I.
- 3.5 <u>Marking</u>. Marking shall be in accordance with MIL-STD-883 (see 3.1 herein). The part shall be marked with the PIN listed in 1.2 herein. In addition, the manufacturer's PIN may also be marked as listed in MIL-BUL-103 (see 6.6 herein).

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<u>查询"5962-86704012</u> Test	A   洪沙尚   Symbol	   Conditi		   Group A	Limi		   Unit
	$-55^{\circ}C \le T_A \le +125^{\circ}C \ \underline{1}$   unless otherwise specified		subgroups	Min	Max		
REFERENCE SECTION							
Reference output voltage	V <sub>REF</sub>	  I <sub>O</sub> = 1.0 mA, T <sub>J</sub> =	: +25°C	1	4.95	5.05	V
Line regulation	V <sub>RLINE</sub>	  12 V ≤ V <sub>IN</sub> ≤ 25 V	,	1, 2, 3		20	   mV
Load regulation	VRLOAD	  1.0 mA ≤ I <sub>O</sub> ≤ 20	mA	1, 2, 3		25	m∨
Total output variation		  Line, load, and t	emperature <u>2</u> /	1, 2, 3	4.90	5.10	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Long term stability <u>2</u> /		T <sub>A</sub> = +125°C, 1,00	00 hours, V <sub>REF</sub>	2		25	mV
Output short-circuit	Ios			1, 2, 3	-30	  -180 	mA
OSCILLATOR SECTION							
Initial accuracy		$T_{J} = +25^{\circ}C \qquad 3/$		4	47	57	   kHz 
Voltage stability		12 V ≤ V <sub>CC</sub> ≤ 25 V	,	4, 5, 6		1.0	   % 
Discharge current		V <sub>PIN4</sub> = 2 V Device types 05,	n	11	7.8	8.8	   mA
		Device types US,	06, U7 and U8	2, 3	7.5	8.8	<u> </u> 
ERROR AMP SECTION							
Input voltage	V <sub>IN</sub>	v <sub>PIN 1</sub> = 2.5 v		1, 2, 3	2.45	2.55	   v 
Input bias current	IIB			1, 2, 3		-1.0	   μα 
Open loop voltage gain	AvoL	$2.0 \text{ V} \leq \text{V}_0 \leq 4.0$	v	4, 5, 6	   65 		dB
Unity gain bandwidth	GBW	<u>2</u> /		4, 5, 6	0.55	   	   MHz 
Power supply rejection ratio	PSRR	  12 V ≤ V <sub>CC</sub> ≤ 25 V		4, 5, 6	   60 		   dB 
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查询"5962-8670401	2A"供应商						
rest	Symbol	Conditions -55°C ≤ T <sub>A</sub> ≤ +125°C <u>1</u> / unless otherwise specified	Group A  subgroups	Limi	Max	∐ Unit	
Output sink current	ISINK	V <sub>PIN 2</sub> = 2.7 V, V <sub>PIN 1</sub> = 1.1 V	1, 2, 3	2.0		mA	
Output source current	<sup>I</sup> SOURCE	V <sub>PIN 2</sub> = 2.3 V, V <sub>PIN 1</sub> = 5.0 V	1, 2, 3	-0.5		   mA 	
V <sub>OUT</sub> high	v <sub>oH</sub>	$V_{PIN 2} = 2.3 \text{ V}, R_{L} = 15 \text{ k}\Omega$ to ground	1, 2, 3	5.0		V	
V <sub>OUT</sub> low	v <sub>oL</sub>	V <sub>PIN 2</sub> = 2.7 V, R <sub>L</sub> = 15 kΩ   to pin 8	1, 2, 3		1.1	V	
CURRENT SENSE SECTION		•				1	
Gain	A	4/ 5/	4, 5, 6	2.85	3.15	   V/V	
Maximum input signal		V <sub>PIN 1</sub> = 5.0 V <u>4</u> /	4, 5, 6	0.9	1.1	v	
Input bias current	IB		1, 2, 3		-10	μΑ	
Delay to output	<sup>t</sup> d	$\begin{vmatrix} v_{\text{PIN 2}} = 0 \ v \\ v_{\text{PIN 3}} = 2 \ v \ \text{(step input) } \underline{2}/ \end{vmatrix}$	9		300	ns	
		PIN 3 - 2 4 (step input) 2/	10, 11	<u> </u>	400		
OUTPUT SECTION							
Output low voltage	v <sub>OL</sub>	I <sub>SINK</sub> = 20 mA	1, 2, 3		0.4	V	
		I <sub>SINK</sub> = 200 mA	   1, 2, 3 		   2.2 	<b>v</b>	
Output high voltage	v <sub>он</sub>	I <sub>SOURCE</sub> = 20 mA	1, 2, 3	13	 	V	
		I <sub>SOURCE</sub> = 200 mA	1, 2, 3	12		v	

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## ■ 9004708 000**1**070 812 **■**

<u> 查询"5962-86704012/</u>		Condit	iono	   Group A	Limi	+c	Unit
Test	Symbol   	-55°C ≤ T <sub>A</sub>	$-55$ °C ≤ $T_A$ ≤ $+125$ °C $1/$   s unless otherwise specified		Min	Max	Jonne
Rise time	tr	c <sub>L</sub> = 1,000 pF		9		150	ns
		21	2/			200	
Fall time	tf	c <sub>L</sub> = 1,000 pF		9		150	ns
		_		10, 11	<u> </u>	200	<u>i</u>
UVLO saturation voltage	UVLOSAT	V <sub>CC</sub> = 5 V, I <sub>SINK</sub> Device types 05,	= 10 mA, 06, 07, and 08	1, 2, 3		1.2	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
UNDER-VOLTAGE LOCKOUT SECTI	ON						
Start threshold	v <sub>TH</sub>		Device types 01,03,05,07	1, 2, 3	15	17	V
	<u> </u>		02,04,06,08		7.8	9.0	<u> </u>
Minimum operating voltage	V <sub>MIN</sub>	  After turn-on	Device types 01,03,05,07	   1, 2, 3	9.0	11	<u> </u> v
			02,04,06,08		7.0	8.2	<u> </u>
PWM SECTION							
Maximum duty cycle	t <sub>oN</sub> /			1, 2, 3	93	100	<u> </u> %
	tosc max		03,04,07,08		46	50	
Minimum duty cycle	t <sub>ON</sub> /		   All devices	1, 2, 3		   0 	%
TOTAL STANDBY CURRENT	,		<u> </u>		. <del>1</del>	1	
Start-up current	ISTART			1, 2, 3		1.0	mA
Operating supply current	ıcc	V <sub>PIN 2</sub> = V <sub>PIN 3</sub>	= 0 V	1, 2, 3		17	mA
1/ $T_A = T_J$ . Characteristi 15 V), $R_T = 10 \text{ k}\Omega$ and C are for case outline P.	cs apply at N T = 3.3 nF ur	/ <sub>CC</sub> = 15 <b>V</b> (adjust less otherwise sp	V <sub>CC</sub> above the s ecified. All re	tart threshol ferences to p	d before so	etting at	
2/ These parameters are gu	aranteed if m	not tested.					
3/ Output frequency equals oscillator frequency fo				05, and 06.	Output fr	equency is	s one half
$\frac{4}{4}$ Parameter measured at t	rip point of	latch with $V_{FB}$ =	o v.				
<u>5</u> / Gain is defined as:	$A = \frac{^{\Delta V}_{COMP}}{^{\Delta V}_{ISENS}}$	_; 0 V ≤ V <sub>ISENSE</sub> SE	≤ 0.8 V				
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<u> </u>					
Device type	ALL	ALL	ALL	ALL	ALL
Case outline	С	н	Р	2	x
   Terminal number	   Terminal symbol	   Terminal symbol	Terminal symbol	Terminal symbol	Terminal symbol
1	COMP	COMP	COMP	N.C.	N.C.
2	N.C.	v <sub>FB</sub>	v <sub>FB</sub>	СОМР	COMP
3	v <sub>FB</sub>	<sup>I</sup> SENSE	!   <sup>I</sup> sense	N.C.	N.C.
4	N.C.	R <sub>T</sub> /C <sub>T</sub>	R <sub>T</sub> /C <sub>T</sub>	N.C.	N.C.
5	I <sub>SENSE</sub>	POWER GND	   GROUND	v <sub>FB</sub>	V <sub>FB</sub>
6	N.C.	GROUND	!   ОПТРИТ	N.C.	N.C.
7	R <sub>T</sub> /C <sub>T</sub>	OUTPUT	V <sub>cc</sub>	I SENSE	I <sub>SENSE</sub>
8	POWER GND	v <sub>c</sub>	V <sub>REF</sub>	N.C.	N.C.
9	GROUND	v <sub>cc</sub>		N.C.	N.C.
10	   ОПТРИТ	V <sub>REF</sub>	 	R <sub>T</sub> /C <sub>T</sub>	R <sub>T</sub> /C <sub>T</sub>
11	v <sub>c</sub>	! 		N.C.	N.C.
12	v <sub>cc</sub>			GROUND	PWR GND
13	N.C.	   		N.C.	GROUND
14	V <sub>REF</sub>	 		N.C.	N.C.
15	 			OUTPUT	OUTPUT
16				N.C.	N.C.
17		! 		v <sub>cc</sub>	v <sub>c</sub>
18				N.C.	v <sub>cc</sub>
19				N.C.	N.C.
20		 		V <sub>REF</sub>	V <sub>REF</sub>

NOTE: Case outlines E and F are not available from an approved source.

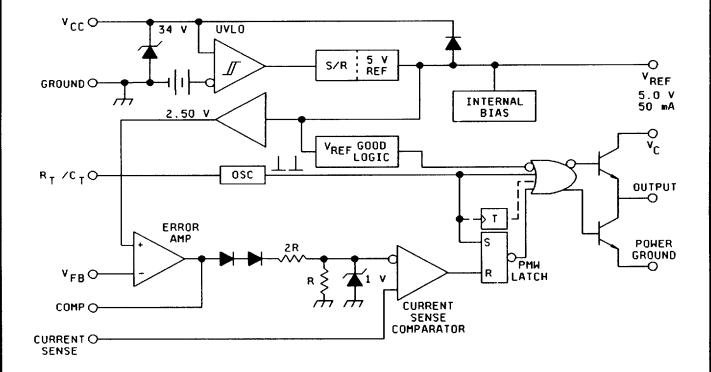
FIGURE 1. <u>Terminal connections</u>.

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NOTE: Toggle flip flop used only in device types 03, 04, 07, and 08.

FIGURE 2. Logic diagram.

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- 3.6 <u>Certificate of compliance</u>. A certificate of compliance shall be required from a manufacturer in order to be listed as an approved source of supply in MIL-BUL-103 (see 6.6 herein). The certificate of compliance subministry 1500286年70年0月2月2日 as an approved source of supply shall affirm that the manufacturer's product meets the requirements of MIL-STD-883 (see 3.1 herein) and the requirements herein.
- 3.7 <u>Certificate of conformance</u>. A certificate of conformance as required in MIL-STD-883 (see 3.1 herein) shall be provided with each lot of microcircuits delivered to this drawing.
- 3.8 <u>Notification of change</u>. Notification of change to DESC-EC shall be required in accordance with MIL-STD-883 (see 3.1 herein).
- 3.9 <u>Verification and review</u>. DESC, DESC's agent, and the acquiring activity retain the option to review the manufacturer's facility and applicable required documentation. Offshore documentation shall be made available onshore at the option of the reviewer.
  - 4. QUALITY ASSURANCE PROVISIONS
- 4.1 <u>Sampling and inspection</u>. Sampling and inspection procedures shall be in accordance with section 4 of MIL-M-38510 to the extent specified in MIL-STD-883 (see 3.1 herein).
- 4.2 <u>Screening</u>. Screening shall be in accordance with method 5004 of MIL-STD-883, and shall be conducted on all devices prior to quality conformance inspection. 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 the preparing or acquiring activity upon request. The test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in test method 1015.
    - (2)  $T_{\Delta} = +125^{\circ}C$ , minimum.
  - 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.
- 4.3 <u>Quality conformance inspection</u>. Quality conformance inspection shall be in accordance with method 5005 of MIL-STD-883 including groups A, B, C, and D inspections. The following additional criteria shall apply.
  - 4.3.1 Group A inspection.
    - a. Tests shall be as specified in table II herein.
    - b. Subgroups 7 and 8 in table I, method 5005 of MIL-STD-883 shall be omitted.
  - 4.3.2 Groups C and D inspections.
    - a. End-point electrical parameters shall be as specified in table II herein.
    - b. Steady-state life test conditions, 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 the preparing or acquiring activity upon request. 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)  $T_{\Delta} = +125^{\circ}C$ , minimum.
      - (3) Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.

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## TABLE II. <u>Electrical test requirements</u>.

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	MIL-STD-883 test requirements	(per method
		5005, table I)
	Interim electrical parameters (method 5004)	
	Final electrical test parameters     (method 5004)	1*,2,3,4
	Group A test requirements   (method 5005)	1,2,3,4,5,6, 9**,10**,11**
	Groups C and D end-point   electrical parameters   (method 5005)	1

- \* PDA applies to subgroup 1.
- \*\* Subgroups 9, 10, and 11 are guaranteed if not tested to the limits specified in table I.
- PACKAGING
- 5.1 Packaging requirements. The requirements for packaging shall be in accordance with MIL-M-38510.
- NOTES
- 6.1 <u>Intended use</u>. Microcircuits conforming to this drawing are intended for use when military specifications do not exist and qualified military devices that will perform the required function are not available for OEM application. When a military specification exists and the product covered by this drawing has been qualified for listing on QPL-38510, the device specified herein will be inactivated and will not be used for new design. The QPL-38510 product shall be the preferred item for all applications.
- 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-481 using DD Form 1693, Engineering Change Proposal (Short Form).
- 6.4 <u>Record of users</u>. Military and industrial users shall inform Defense Electronics Supply Center when a system application requires configuration control and the applicable SMD. DESC 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 microelectronics devices (FSC 5962) should contact DESC-EC, telephone (513) 296-6047.
- 6.5 <u>Comments</u>. Comments on this drawing should be directed to DESC-EC, Dayton, Ohio 45444, or telephone 513-296-5377.
- 6.6 <u>Approved sources of supply</u>. Approved sources of supply are listed in MIL-BUL-103. The vendors listed in MIL-BUL-103 have agreed to this drawing and a certificate of compliance (see 3.6 herein) has been submitted to and accepted by DESC-EC.

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