REVISIONS									
LTR	DESCRIPTION	DATE (YR-MO-DA)	APPROVED						
A	Convert to military drawing format, page 2, case Z change from 2150 mW to 1825 mW. Page 5, table I, change V_{OL} test condition I_{OL} from -1 mA to 1 mA. Change code identification number to 67268.	87-11-25	M. A. FRYE						
В	Add a C-J4 package and change the vendor's part number. Editorial changes throughout.	90-10-15	M. A. FRYE						
С	Make correction to marking paragraph 3.5. Drawing updated to reflect current requirementsrrp	05-04-04	R. MONNIN						
D	Change to setup time, $t_{\rm SU},$ condition from 20 ns to 28 ns for device type 01 in 1.4rrp	06-07-07	R. MONNIN						

THE ORIGINAL FIRST SHEET OF THIS DRAWING HAS BEEN REPLACED.

CURRENT CAGE CODE 67268

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SHEET																				
REV	D	D	D																	
SHEET	15	16	17																	
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THIS DRAWING IS AVAILABLE FOR USE BY ALL DEPARTMENTS				APPROVED BY MICHAEL A. FRYE					MIC DR	ROC	CIRCI S, M	JIT, L DNOI	.INE/ _ITHI	AR, A C SII	.C PL _ICO	ASM N	A DIS	SPLA	Y	
AND AGENCIES OF THE DEPARTMENT OF DEFENSE			E SE	DRAWING APPROVAL DATE 86-04-15																
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I. SCOFE

1.1 <u>Scope</u>. This drawing describes device requirements for MIL-STD-883 compliant, non-JAN class level B microcircuits in accordance with MIL-PRF-38535, appendix A.

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



1.4 Recommended operating conditions.

Low level input voltage (V_{IL}) as a percentage of V_{CC1}	20 mA maximum 20 mA maximum 20 mA maximum 20 mB maximum 20 ns minimum 20 ns minimum 50 ns minimum
-----------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

2. APPLICABLE DOCUMENTS

2.1 <u>Government specification, standards, and handbooks</u>. The following specification, standards, and handbooks form a part of this drawing to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract.

DEPARTMENT OF DEFENSE SPECIFICATION

MIL-PRF-38535 - Integrated Circuits, Manufacturing, General Specification for.

DEPARTMENT OF DEFENSE STANDARDS

MIL-STD-883	-	Test Method Standard Microcircuits.
MIL-STD-1835	-	Interface Standard Electronic Component Case Outlines

DEPARTMENT OF DEFENSE HANDBOOKS

MIL-HDBK-103 - List of Standard Microcircuit Drawings. MIL-HDBK-780 - Standard Microcircuit Drawings.

(Copies of these documents are available online at <u>http://assist.daps.dla.mil/quicksearch/</u> or <u>http://assist.daps.dla.mil</u> or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

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 takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

<u>2</u>/ For operation above $T_A = +25^{\circ}C$ junction temperature (see figure 1).

STANDARD MICROCIRCUIT DRAWING	SIZE A		86018
DEFENSE SUPPLY CENTER COLUMBUS		REVISION LEVEL	SHEET
COLUMBUS, OHIO 43218-3990		D	3

3. REQUIREMENTS

3.1 <u>Item requirements</u>. The individual item requirements shall be in accordance with MIL-PRF-38535, appendix A for non-JAN class level B devices and as specified herein. Product built to this drawing that is produced by a Qualified Manufacturer Listing (QML) certified and qualified manufacturer or a manufacturer who has been granted transitional certification to MIL-PRF-38535 may be processed as QML product in accordance with the manufacturers approved program plan and qualifying activity approval in accordance with MIL-PRF-38535. This QML flow as documented in the Quality Management (QM) plan may make modifications to the requirements herein. These modifications shall not affect form, fit, or function of the device. These modifications shall not affect the PIN as described herein. A "Q" or "QML" certification mark in accordance with MIL-PRF-38535 is required to identify when the QML flow option is used.

3.2 <u>Design, construction, and physical dimensions</u>. The design, construction, and physical dimensions shall be as specified in MIL-PRF-38535, appendix A and herein.

3.2.1 <u>Case outlines</u>. The case outlines 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 2.

3.2.3 Logic symbols and functional block diagrams. The logic symbols and functional block diagrams shall be as specified on figure 3.

3.2.4 Switching waveforms. The switching waveforms shall be as specified on figure 4.

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 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-PRF-38535, appendix A. The part shall be marked with the PIN listed in 1.2 herein. In addition, the manufacturer's PIN may also be marked.

3.5.1 <u>Certification/compliance mark</u>. A compliance indicator "C" shall be marked on all non-JAN devices built in compliance to MIL-PRF-38535, appendix A. The compliance indicator "C" shall be replaced with a "Q" or "QML" certification mark in accordance with MIL-PRF-38535 to identify when the QML flow option is used.

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-HDBK-103 (see 6.6 herein). The certificate of compliance submitted to DSCC-VA prior to listing as an approved source of supply shall affirm that the manufacturer's product meets the requirements of MIL-PRF-38535, appendix A and the requirements herein.

3.7 <u>Certificate of conformance</u>. A certificate of conformance as required in MIL-PRF-38535, appendix A shall be provided with each lot of microcircuits delivered to this drawing.

3.8 Notification of change. Notification of change to DSCC-VA shall be required for any change that affects this drawing.

3.9 <u>Verification and review</u>. DSCC, DSCC'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.

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Test	Symbol	$-55^{\circ}C \le T_{A} \le +125^{\circ}C$ unless otherwise specified	Group A subgroups	Device type	Li	mits	Unit
				,,	Min	Max	
Input clamp voltage	V _{IK}	V _{CC1} = 12 V, I _I = -12 mA	1, 2, 3	01		-1.5	V
High level output voltage	V _{OH}	$V_{CC1} = 13.2 \text{ V}, I_{OH} = -1 \text{ mA},$ $V_{CC2} = 100 \text{ V}$	1, 2, 3	01	94		V
		$V_{CC1} = 13.2 \text{ V}, I_{OH} = -10 \text{ mA},$ $V_{CC2} = 100 \text{ V}$			92		
		$V_{CC1} = 13.2 \text{ V}, I_{OH} = -15 \text{ mA},$ $V_{CC1} = 100 \text{ V}$			90		
_ow level output voltage	V _{OL}	$V_{CC2} = 100 V$ $V_{CC1} = 13.2 V, I_{OL} = 1 mA,$	1, 2, 3	01		2.0	V
		$V_{CC2} = 100 V$ $V_{CC1} = 13.2 V, I_{OL} = 10 mA,$				4.0	
		$V_{CC2} = 100 \text{ V}$ $V_{CC1} = 13.2 \text{ V}, I_{OL} = 15 \text{ mA},$	-			5.0	
Output clamp voltage	V _{ок}	$V_{CC2} = 100 V$ $V_{CC2} = 0 V, I_0 = 20 mA$	1, 2, 3	01		2.5	V
High level input current	I _{IH}	$V_{CC2} = 0 V, I_0 = -20 mA$ $V_{CC1} = 13.2 V,$	1, 2, 3	01		-2.5 1.0	μΑ
Low level input current	IIL	$V_{I} = V_{IH}$ minimum $V_{CC1} = 13.2 \text{ V},$	1, 2, 3	01		-1.0	μA
Supply current	I _{CC1}	$V_{1} = V_{1L}$ maximum $V_{CC1} = 13.2 \text{ V}, V_{1} = V_{CC1} \text{ max}$	1, 2, 3	01		1.0	mA
Supply current	I _{CC2}	$V_{CC1} = 13.2 \text{ V}, V_1 = 0$ $V_{CC2} = 100 \text{ V}, 8 \text{ outputs high}$	1, 2, 3	01		5.0	mA
Delay time, high to low	t _{DHL}	$V_{CC2} = 100 \text{ V}$, all output low $C_L = 30 \text{ pF}$,	9	01		3.0 250	ns
input		$V_{CC1} = 12 \text{ V}, V_{CC2} = 100 \text{ V}$	10, 11			350	
Delay time, low to high evel output from strobe	t _{DLH}	C _L = 30 pF, V _{CC1} = 12 V, V _{CC2} = 100 V	9 10, 11	01		450 550	ns
nput Transition time, high to	t _{THL}	$C_{L} = 30 \text{ pF},$	9, 10, 11	01		200	ns
Transition time, low to	t _{TLH}	$V_{CC1} = 12 V, V_{CC2} = 100 V$ $C_L = 30 \text{ pF},$	9, 10, 11	01		250	ns

TABLE L Electrical performance characteristic

STANDARD **MICROCIRCUIT DRAWING** DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43218-3990

SIZE A		86018
	REVISION LEVEL D	SHEET 5

Test	Symbol	Conditions -55°C \leq T _A \leq +125°C unless otherwise specifie	C	Group A	Device type	Lir	nits	Unit
				0 a 2 g. 0 a p 0	.) 0	Min	Max	-
Input clamp voltage	V _{IK}	$V_{CC1} = 12 \text{ V}, \text{ I}_{\text{I}} = -12 \text{ mA}$		1, 2, 3	02		-1.5	V
High level output	V _{OH}	$V_{CC1} = 13.2 \text{ V}, \ I_{OH} = -1 \text{ m}$	ηA,	1, 2, 3	02	94		V
voltage		V_{CC2} = 100 V, Q outputs						
		$V_{CC1} = 13.2 \text{ V}, \ I_{OH} = -10 \text{ V}$	mA,			92		
		V_{CC2} = 100 V, Q outputs						_
		$V_{CC1} = 13.2 \text{ V}, \ I_{OH} = -15 \text{ V}$	mA,			90		
		$V_{CC2} = 100 \text{ V}, \text{ Q outputs}$						_
		$V_{CC1} = 10.8 \text{ V}, I_{OH} = -100 \text{ V}$	μΑ,			9		
	N ($V_{CC2} = 100 \text{ V}$, serial data	^	4 0 0	00		2.0	N/
Low level output	V _{OL}	$V_{CC1} = 13.2 \text{ V}, I_{OL} = 1 \text{ m/}$	۹,	1, 2, 3	02		2.0	v
		$V_{CC2} = 100 \text{ V}, \text{ Q Outputs}$	<u>م</u>				4.0	-
		$V_{CC1} = 13.2 \text{ V}, \ 1_{OL} = 10 \text{ H}$	IA,				4.0	
		$V_{CC2} = 132$ V lot = 15 m	nA				5.0	-
		$V_{CC2} = 100 \text{ V}, \text{ Q outputs}$					0.0	
		$V_{CC1} = 10.8 \text{ V}$. $I_{OL} = 100 \text{ L}$	ιA.				1.0	
		$V_{CC2} = 100 \text{ V}$, serial data	,					
Q output clamp voltage	V _{OK}	$V_{CC2} = 0 V, I_0 = 20 mA$		1, 2, 3	02		2.5	V
		$V_{CC2} = 0 V, I_0 = -20 mA$					-2.5	
High level input current	I _{IH}	$V_{CC1} = 13.2 \text{ V}, V_{CC2} = 100$	V C	1, 2, 3	02		1.0	μA
		$V_{IH} = V_{IH}$ minimum						
Low level input current	IIL	$V_{CC1} = 13.2 \text{ V}, V_{CC2} = 100$	O V	1, 2, 3	02		-1.0	μA
		$V_{IL} = V_{IL}$ maximum		1.0.0			1.0	
current	I _{CC1}	$V_{CC1} = 13.2 \text{ V}, \text{ V}_{I} = V_{CC1},$		1, 2, 3	02		1.0	mA
		$V_{CC2} = 100 V$					1.0	
		$V_{CC1} = 100 \text{ V}$					1.0	
High voltage supply	I _{CC2}	$V_{CC2} = 100 \text{ V}$, outputs low	v	1, 2, 3	02		1.0	mA
current		$V_{CC2} = 100$ V, outputs hig	ıh				5.0	
Transition time high to	t _{THL}	C _L = 30 pF,		9, 10, 11	02		200	ns
low level Q output		$V_{CC1} = 12 \text{ V}, V_{CC2} = 100 \text{ V}$	V					
Transition time low to	t _{TLH}	$C_{L} = 30 \text{ pF},$		9, 10, 11	02		250	ns
high level Q output		$V_{CC1} = 12 \text{ V}, V_{CC2} = 100 \text{ V}$	V					
Delay time to high to	t _{DHL}	$C_{L} = 30 \text{ pF}, V_{CC1} = 12 \text{ V},$		9	02		250	ns
low transition		$V_{CC2} = 100 \text{ V}$, from strobe	e to Q	10, 11			300	
		$C_{L} = 30 \text{ pE}$, $V_{CC1} = 12 \text{ V}$.		9			250	-
		$V_{CC2} = 100 \text{ V}$, from sustai	in to	10, 11			300	
		Q outputs		,				
S'			SI	ZE A				86018
DEFENSE SUP COLUMBL	PLY CENTE	ER COLUMBUS 3218-3990		R	EVISION LEV D	EL	SHEE	г 6

	TA	BLE I. Electrical performance char	acteristics - Co	ontinued.			
Test	Symbol	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	Group A subgroups	Device type	Limits		Unit
					Min	Max	
Delay time to low to	t _{DLH}	$C_L = 30 \text{ pF}, V_{CC1} = 12 \text{ V},$	9	02		450	ns
high transition		V_{CC2} = 100 V, from strobe to Q outputs	10, 11			650	
		$C_{L} = 30 \text{ pF}, V_{CC1} = 12 \text{ V},$	9			450	
		V_{CC2} = 100 V, from sustain to Q outputs	10, 11			650	
Delay time to high to	t _{DHL}	$C_L = 20 \text{ pF}, V_{CC1} = 12 \text{ V},$	9	02		147	ns
low from clock to serial		V _{CC2} = 100 V	10, 11			300	
	t _{DLH}		9			147	
			10, 11			300	

4. VERIFICATION

4.1 <u>Sampling and inspection</u>. Sampling and inspection procedures shall be in accordance with MIL-PRF-38535, appendix A.

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 method 1015 of MIL-STD-883.
 - (2) $T_A = +125^{\circ}C$, 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.

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Device types	01		02		
Case outlines	Q	X and Z	Q	X and Z	
Terminal number		Term	inal symbol		
1	SO	NC	CLÓCK	NC	
2	DATA	S0	SUSTAIN	CLOCK	
3	CLOCK	DATA	STROBE	SUSTAIN	
4	1Q1	CLOCK	Q1	STROBE	
5	1Q2	NC	Q2	NC	
6	1Q3	1Q1	Q3	Q1	
7	1Q4	1Q2	Q4	Q2	
8	1Q5	1Q3	Q5	Q3	
9	1Q6	1Q4	Q6	Q4	
10	1Q7	1Q5	Q7	Q5	
11	1Q8	1Q6	Q8	Q6	
12	2Q1	1Q7	Q9	Q7	
13	2Q2	1Q8	Q10	Q8	
14	2Q3	2Q1	Q11	Q9	
15	2Q4	2Q2	Q12	Q10	
16	2Q5	2Q3	Q13	Q11	
17	2Q6	2Q4	Q14	Q12	
18	2Q7	2Q5	Q15	Q13	
19	2Q8	2Q6	Q16	Q14	
20	GND	2Q7	GND	Q15	
21	V _{CC2}	2Q8	V _{CC2}	Q16	
22	3Q8	GND	Q17	GND	
23	3Q7	NC	Q18	NC	
24	3Q6	V _{CC2}	Q19	V _{CC2}	
25	3Q5	3Q8	Q20	Q17	
26	3Q4	3Q7	Q21	Q18	
27	3Q3	3Q6	Q22	Q19	
28	3Q2	3Q5	Q23	Q20	
29	3Q1	3Q4	Q24	Q21	
30	4Q8	3Q3	Q25	Q22	
31	4Q7	3Q2	Q26	Q23	
32	4Q6	3Q1	Q27	Q24	
33	4Q5	4Q8	Q28	Q25	
34	4Q4	4Q7	Q29	Q26	
35	4Q3	4Q6	Q30	Q27	
36	4Q2	4Q5	Q31	Q28	
37	4Q1	4Q4	Q32	Q29	
38	STROBE	4Q3	SERIAL OUT	Q30	
39	S1	4Q2	DATA IN	Q31	
40	V _{CC1}	4Q1	V _{CC1}	Q32	
41		NC		NC	
42		STROBE		SERIAL OUT	
43		S1		DATA IN	
44		V _{CC1}		V _{CC1}	

NC = No connection

FIGURE 2. Terminal connections.

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LOGIC SYMBOLS

FIGURE 3. Logic symbols and functional block diagrams.

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LOGIC SYMBOLS

FIGURE 3. Logic symbols and functional block diagrams - Continued.

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FUNCTIONAL BLOCK DIAGRAM(POSITIVE LOGIC)

APR 97





TABLE II.	Electrical test requirements.
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MIL-STD-883 test requirements	Subgroups
	(in accordance with
	MIL-STD-883, method 5005,
	table I)
Interim electrical parameters	1
(method 5004)	
Final electrical test parameters	1*, 2, 3, 9
(method 5004)	
Group A test requirements	1, 2, 3, 9, 10**, 11**
(method 5005)	
Groups C and D end-point	1, 2, 3
electrical parameters	
(method 5005)	

* PDA applies to subgroup 1.

** Subgroups 10 and 11, if not tested, shall be guaranteed to specified limits in table I.

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 4, 5, 6, 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 method 1005 of MIL-STD-883.
 - (2) $T_A = +125^{\circ}C$, minimum.
 - (3) Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.

5. PACKAGING

5.1 Packaging requirements. The requirements for packaging shall be in accordance with MIL-PRF-38535, appendix A.

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 contractorprepared specification or drawing.

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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 using DD Form 1692, Engineering Change Proposal.

6.4 <u>Record of users</u>. Military and industrial users shall inform Defense Supply Center Columbus (DSCC) 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 microelectronics devices (FSC 5962) should contact DSCC-VA, telephone (614) 692-0544.

6.5 <u>Comments</u>. Comments on this drawing should be directed to DSCC-VA, Columbus, Ohio 43216-5000, or telephone (614) 692-0547

6.6 <u>Approved sources of supply</u>. Approved sources of supply are listed in MIL-HDBK-103. The vendors listed in MIL-HDBK-103 have agreed to this drawing and a certificate of compliance (see 3.6 herein) has been submitted to and accepted by DSCC-VA.

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STANDARD MICROCIRCUIT DRAWING BULLETIN

DATE: 06-07-07

Approved sources of supply for SMD 86018 are listed below for immediate acquisition information only and shall be added to MIL-HDBK-103 and QML-38535 during the next revision. MIL-HDBK-103 and QML-38535 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 information bulletin is superseded by the next dated revision of MIL-HDBK-103 and QML-38535. DSCC maintains an online database of all current sources of supply at http://www.dscc.dla.mil/Programs/Smcr/.

Standard	Vendor	Vendor
microcircuit drawing	CAGE	similar
PIN <u>1</u> /	number	PIN <u>2</u> /
8601801QA	3V146	55500EJ/BQA
	<u>3</u> /	SNJ55500EJ
8601801XA	3V146	55500EFJ/BXA
	<u>3</u> /	SNJ55500EFJ
8601801ZA	3V146	55500EFD/BZA
	<u>3</u> /	SNJ55500EFD
8601802QA	3V146	55501EJ/BQA
	<u>3</u> /	SNJ55501EJ
8601802XA	3V146	55501EFJ/BXA
	<u>3</u> /	SNJ55501EFJ
8601802ZA	3V146	55501EFD/BZA
	<u>3</u> /	SNJ55501EFD

- 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 its availability.
- <u>2</u>/ <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.
- $\underline{3}$ / Not available from an approved source of supply.

Vendor CAGE <u>number</u> Vendor name and address

3V146

Rochester Electronics 10 Malcolm Hoyt Drive Newburyport, MA 01950

The information contained herein is disseminated for convenience only and the Government assumes no liability whatsoever for any inaccuracies in the information bulletin.