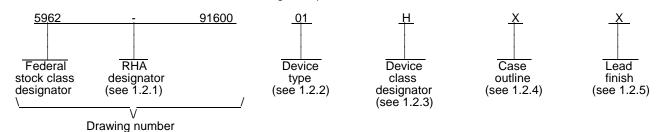
LTR	REVISION DESCRIPTION								DA	TE (YF	R-MO-	DA)		APPF	ROVEI)			
A	Added case outline Z package. Changed package h outline X from .325 inches max to .330 inches max. F document.									95-02-01			K. A. Cottongim						
В	Figure 1; Case outline Z. Changed the dimension (S) .320 inches min and .340 inches max to .200 inches r .210 inches max. Changed the dimension (S) millime max from 8.13 mm to 5.08 mm and 8.64 mm to 5.33 r entire document. –sld						min an eters m	nin and		99-02-03			ĸ	K. A. Cottongim					
С		ate draw					Z, dime	ension	s table	; corre	ect		08-0	08-06		R	obert	M. He	ber
D		e II, add rplate p				-point t	est pa	ramete	ers. U	pdate			11-0)4-01		С	harles	F. Sa	ffle
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SHEET REV SHEET REV STATU OF SHEETS PMIC N/A MICR DR THIS DRAWI	ANDAR OCIRC AWING JSE BY A ARTMEN NCIES C	UIT S VAILABL ALL TS DF THE		HEET REPA Steve L HECKE Michael PPRON	. Dunc D BY C. Jon (ED BY (A. Luc	1 Y can nes	2	3	4 MIC	5 CRO	6 CC	7 DLA I DLUM http	8 IBUS, p://ww	9 O AND , OHIO yw.ds	10 MAR 0 432	11 218-39 a.mil	12 E 990		Γ,
SHEET REV SHEET REV STATU OF SHEETS PMIC N/A MICR MICR DR THIS DRAWI FOR U DEPA AND AGE DEPARTME	ANDAR OCIRC AWING JSE BY A ARTMEN NCIES C	UIT S VAILABL ALL TS DF THE		HEET REPA Steve L HECKE Michael PPRON Gregory	. Dunc D BY C. Jon (ED BY (A. Luc IG APP 92-(N LEV	de PROVA	2	3	4 MIC SIN	5 CRO0 IGLE		7 DLA I DLUM http	8 IBUS,)://ww , HYI EL, I	9 O AND , OHIO yw.ds	10 0 MAR 0 432 0 cc.dl	11 218-39 a.mil	12 E 990	ER	Γ,

1. SCOPE

1.1 <u>Scope</u>. This drawing documents five product assurance classes as defined in paragraph 1.2.3 and MIL-PRF-38534. A choice of case outlines and lead finishes which are available and are reflected in the Part or Identifying Number (PIN). When available, a choice of radiation hardness assurance levels are reflected in the PIN.

1.2 <u>PIN</u>. The PIN shall be as shown in the following example:



1.2.1 <u>Radiation hardness assurance (RHA) designator</u>. RHA marked devices shall meet the MIL-PRF-38534 specified RHA levels and shall be marked with the appropriate RHA designator. A dash (-) indicates a non-RHA device.

1.2.2 Device type. The device type identify the circuit function as follows:

Device type	Generic number	Circuit function
01	AHF2805S/CH, AHF2805SF/CH	DC-DC converter , 12 W, 5 V output

1.2.3 <u>Device class designator</u>. This device class designator shall be a single letter identifying the product assurance level. All levels are defined by the requirements of MIL-PRF-38534 and require QML Certification as well as qualification (Class H, K, and E) or QML Listing (Class G and D). The product assurance levels are as follows:

Device class		Device perfo	rmance documentation
К	Highest re applicatio		This level is intended for use in space
Н		military quality class leven n-space high reliability de	el. This level is intended for use in applications evices are required.
G	Class H s range, ma	creening and In-Process anufacturer specified inco	ndard military quality class. This level uses the Inspections with a possible limited temperature oming flow, and the manufacturer guarantees (but nance inspections (Group A, B, C, and D).
E	with exce be specifi should be	ption(s) taken to the requed in the device acquisiti	ed upon one of the other classes (K, H, or G) irements of that class. These exception(s) must on document; therefore the acquisition document the exception(s) taken will not adversely affect
D			es. Quality level is defined by the manufacturers broduct may have a limited temperature range.
Case outlines.	The case outlines are as desi	gnated in MIL-STD-1835	and as follows:
Outline letter	Descriptive designator	Terminals	Package style
X Z	See figure 1 See figure 1	8 8	Dual-in-line Flange package

1.2.5 Lead finish. The lead finish shall be as specified in MIL-PRF-38534.

CTANDADD	SIZE		
STANDARD MICROCIRCUIT DRAWING	Α		5962-91600
DLA LAND AND MARITIME COLUMBUS, OHIO 43218-3990		REVISION LEVEL D	SHEET 2

1.2.4

1.3 <u>Absolute maximum ratings</u> . <u>1</u> /	
Input voltage range Power dissipation (P_D) Lead temperature (soldering, 10 seconds) Storage temperature range	-0.5 V dc to +50 V dc 6 W +300°C -65C to +150°C
1.4 <u>Recommended operating conditions</u> .	
Input voltage range	+16 V dc to +40 V dc < 12 W

Output power	≤ 12 W
Case operating temperature range (T _c)	-55°C to +125°C

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-38534 - Hybrid Microcircuits, General Specification for.

DEPARTMENT OF DEFENSE STANDARDS

MIL-STD-883 - Test Method Standard Microcircuits. MIL-STD-1835 - Interface Standard for 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>https://assist.daps.dla.mil/quicksearch/</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.

3. REQUIREMENTS

3.1 <u>Item requirements</u>. The individual item performance requirements for device classes D, E, G, H, and K 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 the applicable device class. The manufacturer may eliminate, modify or optimize the tests and inspections herein, however the performance requirements as defined in MIL-PRF-38534 shall be met for the applicable device class. In addition, the modification in the QM plan shall not affect the form, fit, or function of the device for the applicable device class.

3.2 <u>Design, construction, and physical dimensions</u>. The design, construction, and physical dimensions shall be as specified in MIL-PRF-38534 and herein.

3.2.1 <u>Case outlines</u>. The case outlines shall be in accordance with 1.2.4 herein and figure 1.

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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3.2.2 <u>Terminal connections</u>. The terminal connections shall be as specified on figure 2.

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 devices</u>. Marking of devices 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.

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 (DLA Land and Maritime-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 DLA Land and Maritime-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. VERIFICATION

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 DLA Land and Maritime-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 method 1015 of MIL-STD-883.
 - (2) T_C 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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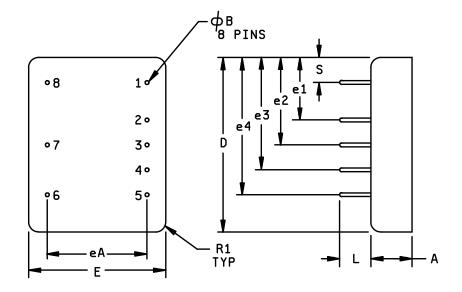
		TABLE I. Electrical per	formance	characteristic	<u>s</u> .				
Test	Symbol	ymbol Conditions $-55^{\circ}C \le T_C \le +125^{\circ}C$		Group A subgroups	Device type	Limits		Unit	
		V _{IN} = 28 V dc ±5 %, 0 unless otherwise spe				Min	Max		
Output voltage	V _{OUT}	I _{OUT} = 0		1	01	4.95	5.05	V dc	
				2,3		4.90	5.10		
Output current <u>1</u> /	Ι _{ουτ}	$V_{IN} = 16, 28, and 40 V c$	dc	1,2,3	01	0.0	2400	mA	
Output ripple voltage <u>2</u> /	V _{RIP}	V _{IN} = 16, 28, and 40 V o B.W. = 20 Hz to 2 MHz		1,2,3	01		60	mV p-p	
Output power <u>1</u> /	P _{OUT}	V_{IN} = 16, 28, and 40 V o	dc	1,2,3	01	12		w	
Line regulation	VR _{LINE}	V_{IN} = 16, 28, and 40 V o I_{OUT} = 0, 1.2, and 2.4 A	dc,	1,2,3	01		25	mV	
Load regulation	VR _{LOAD}	V_{IN} = 16, 28, and 40 V o I _{OUT} = 0, 1.2, and 2.4 A		1,2,3	01		50	mV	
Input current	I _{IN}	I _{OUT} = 0, inhibit (pin 1) is converted to input retur		1,2,3	01		12	mA	
		I _{OUT} = 0, inhibit (pin 1) c	open				30		
Input ripple current	I _{RIP}	I _{OUT} = 2.4 A, B.W. = 20 Hz to 2 MHz		1,2,3	01		50	mA p-p	
Efficiency	Eff	I _{OUT} = 2.4 A		1	01	76		%	
Isolation	ISO	Input to output or any p case (except pin 6) at 5		1	01	100		MΩ	
Capacitive load <u>3/ 4</u> /	CL	No effect on dc perform	nance	4	01		500	μF	
See footnotes at end of table.									
ST MICROCIF	ANDARD		sizi A				5962	-91600	
DLA LAND AND MARITIME COLUMBUS, OHIO 43218-3990			RE	/ISION LE D	VEL	SHEET	5		

Test	Symbol	Conditions -55°C \leq T _C \leq +125°C	Group A subgroups	Device type	Limits		Unit
		$V_{IN} = 28 \text{ V dc} \pm 5 \text{ \%}, C_L = 0$ unless otherwise specified			Min	Max	
Power dissipation, load fault	P _D	Overload <u>5</u> /	1	01		6	W
		Short circuit				2.0	
Switching frequency	Fs	I _{OUT} = 2.4 A	4,5,6	01	500	600	kHz
Output response to step transient load changes	VO _{TLOAD}	50% load to/from 100% load	4,5,6	01	-300	+300	mV pk
<u>6</u> /		No load to/from 50% load			-500	+500	
Recovery time, step transient load changes	TT _{LOAD}	50% load to/from 100% load	4,5,6	01		70	μS
<u>6/ 7/</u>		No load to 50% load				1200	
		50% load to no load				8	ms
Output response to transient step line changes <u>4/ 8</u> /	VO _{TLINE}	Input step from 16 to 40 V dc, I _{OUT} = 2.4 A	4,5,6	01		500	mV pk
		Input step from 40 to 16 V dc, $I_{OUT} = 2.4 \text{ A}$				500	
Recovery time, transient step line changes <u>4/ 7/</u>	TT _{LINE}	Input step from 16 to 40 V dc, $I_{OUT} = 2.4 \text{ A}$	4,5,6	01		800	μS
		Input step from 40 to 16 V dc, $I_{OUT} = 2.4 \text{ A}$				800	
Turn-on overshoot	Vton _{OS}	$I_{OUT} = 0$ and 2.4 A	4,5,6	01		600	mV pk
See footnotes at end of ta	ble.	•	•			-	•

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TABLE I. Electrical performance characteristics - Continued.										
Test	-55°C ≤ T _C ≤ +125		5°C sι	roup A ubgroups	Device type	Limits		Unit		
		V _{IN} = 28 V dc ±5 %, 0 unless otherwise spe				Min	Max			
Turn-on delay <u>9</u> /	Ton _D	I _{OUT} = 0 and 2.4 A		4,5,6	01		20	ms		
Load fault recovery <u>4</u> /	Tr _{LF}			4,5,6	01		20	ms		
<u>1</u> / Parameter guaranteed	by line and	load regulation tests.								
2/ Bandwidth guaranteed	by design.	Tested for 20 kHz to 2 M	Hz.							
	aximum lim	from 0 to the maximum lin it will not disturb loop stal as a short circuit during to	oility but will in					ve		
<u>4</u> / Parameter shall be test Therefore this paramete		of design characterization guaranteed to the limits s			process o	hange.				
<u>5</u> / An overload is that cond short circuit protection a	dition with a and is the c	l load in excess of the rate ondition of maximum pow	ed load but le ver dissipatior	ess than than than than that	at necessa	ry to trigge	r the			
6/ Load step transition tim	e between	2 and 10 microseconds.								
<u>7</u> / Recovery time is measured volume to Vout at 50 percent load		e initiation of the transier	nt to where Vo	DUT has ret	urned to w	ithin ±1 per	cent of			
<u>8</u> / Input step transition tim tested.	e between :	2 and 10 microseconds.	Parameter gu	uaranteed	by design	but not 100	percent			
<u>9</u> / Turn-on delay time mea signal from the inhibit p		s for either a step applica hile power is applied to th		at the inpu	it or the re	moval of a	ground			
ST/ MICROCIR	ANDARD CUIT DR		SIZE A				5962	2-91600		
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Case outline X.



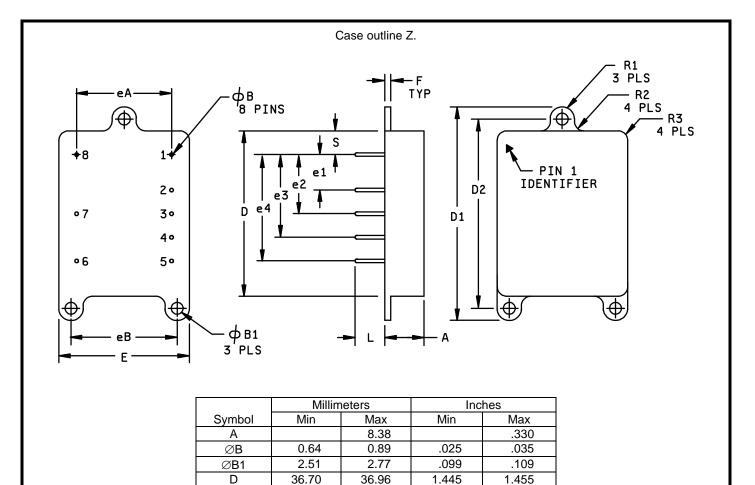
	Millimeters		Inc	hes
Symbol	Min	Max	Min	Max
A		8.38		.330
ØB	0.64	0.89	.025	.035
D	36.70	36.96	1.445	1.455
eA	20.19	20.45	.795	.805
e1	12.70	12.95	.500	.510
e2	17.78	18.03	.700	.710
e3	22.86	23.11	.900	.910
e4	27.94	28.19	1.100	1.110
E	28.32	28.58	1.115	1.125
L	6.35	6.86	.250	.270
R1	2.03	2.54	.080	.100
S	5.08	5.33	.200	.210

NOTES:

- 1. The U.S. government preferred system of measurement is the metric SI. This item was designed using inch-pound units of measurement. In case of problems involving conflicts between the metric and inch-pound units, the inch-pound units shall rule.
- 2. Case outline X weight: 30 grams maximum.

FIGURE 1. Case outlines.

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N(דר	F	S	•

1. The U.S. government preferred system of measurement is the metric SI. This item was designed using inch-pound units of measurement. In case of problems involving conflicts between the metric and inch-pound units, the inch-pound units shall rule.

48.51

43.43

7.87

12.95

18.03

23.11

28.58

20.57

23.62

1.52

6.86

2.79

3.43

2.54

5.33

1.890

1.690

.290

.490

.690

.890

.790

.910

.048

.250

.090

.115

.080

.200

1.115

1.910

1.710

.310

.510

.710

.910

.810

.930

.060

.270

.110

.135

.100

.210

1.125

2. Case outline Z weight: 38 grams maximum.

D1

D2

e1 e2

e3

e4

Е

eA eB

F

L

R1

R2

R3

S

48.01

42.93

7.37

12.45

17.53

22.61

28.32

20.07

23.11

1.22

6.35

2.29

2.92

2.03

5.08

FIGURE 1. Case outlines - Continued.

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Device type	01
Case outlines	X and Z
Terminal number	Terminal symbol
1	Inhibit
2	No connection
3	Output return
4	Output
5	No connection
6	Case ground
7	Input return
8	Input

FIGURE 2. Terminal connections.

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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, 5, 6
Group A test requirements	1, 2, 3, 4, 5, 6
Group C end-point electrical parameters <u>1</u> /	1, 2, 3, 4
End-point electrical parameters for radiation hardness assurance (RHA) devices	Not applicable

TABLE II. Electrical test requirements.

* PDA applies to subgroup 1.

- <u>1</u>/ As a minimum, for all Group C testing performed after 1 April 2011 manufacturers shall perform subgroups 1, 2, and 3 from the Group A electrical test table (Table C-Xa of MIL-PRF-38534).
- 4.3.2 Group B inspection (PI). Group B inspection shall be in accordance with MIL-PRF-38534.
- 4.3.3 <u>Group C inspection (PI)</u>. 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 DLA Land and Maritime-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 method 1005 of MIL-STD-883.
 - (2) T_C 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.
- 4.3.5 Radiation Hardness Assurance (RHA) inspection. RHA inspection is not currently applicable to this drawing.
- 5. PACKAGING
- 5.1 <u>Packaging requirements</u>. The requirements for packaging shall be in accordance with MIL-PRF-38534.

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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.

6.3 <u>Configuration control of SMD's</u>. All proposed changes to existing SMD's will be coordinated as specified in MIL-PRF-38534.

6.4 <u>Record of users</u>. Military and industrial users shall inform DLA Land and Maritime when a system application requires configuration control and the applicable SMD. DLA Land and Maritime 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 DLA Land and Maritime-VA, telephone (614) 692-0547.

6.5 <u>Comments</u>. Comments on this drawing should be directed to DLA Land and Maritime-VA, Columbus, Ohio 43218-3990, or telephone (614) 692-1081.

6.6 <u>Sources of supply</u>. Sources of supply are listed in MIL-HDBK-103 and QML-38534. The vendors listed in MIL-HDBK-103 and QML-38534 have submitted a certificate of compliance (see 3.7 herein) to DLA Land and Maritime-VA and have agreed to this drawing.

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STANDARD MICROCIRCUIT DRAWING BULLETIN

DATE: 11-04-01

Approved sources of supply for SMD 5962-91600 are listed below for immediate acquisition information only and shall be added to MIL-HDBK-103 and QML-38534 during the next revisions. MIL-HDBK-103 and 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 DLA Land and Maritime-VA. This information bulletin is superseded by the next dated revisions of MIL-HDBK-103 and QML-38534. DLA Land and Maritime maintains an online database of all current sources of supply at http://www.dscc.dla.mil/Programs/Smcr/.

Standard microcircuit drawing PIN <u>1</u> /	Vendor CAGE number	Vendor similar PIN <u>2</u> /
5962-9160001HXA	52467	AHF2805S/CH
5962-9160001HZA	52467	AHF2805SF/CH

- 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.
- 2/ Caution. Do not use this number for item acquisition. Items acquired to this number may not satisfy the performance requirements of this drawing.

Vendor CAGE number Vendor name and address

52467

International Rectifier Corporation 2520 Junction Avenue San Jose, CA 95134

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

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 FF600R17ME4_B11
 FP25R12KT4_B11
 FS600R07A2E3_B31
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 FZ1800R17KF4
 FZ2400R17HE4_B9
 FZ600R65KE3
 DD261N22K
 DF1000R17IE4
 AUIRL1404ZS
 BAS 40-04
 E6327

 BAS4007WH6327XTSA1
 BAS 70-04
 E6327
 BAS 70-06
 E6327
 BAT15099E6327HTSA1
 BAT 165
 E6327
 BAT 60A
 E6327

 BAS4007WH6327XTSA1
 BAS 70-04
 E6327
 BC 817U E6327
 BC 817U E6327
 BC 817U PN E6327
 BC 846PN H6327
 BC 846UPN E6327
 BC 847PN H6327
 BCM 856S H6327

 BCP5416H6327XTSA1
 BCP55H6327XTSA1
 BCP5616H6327XTSA1
 BCR 108 E6327
 BCR 10PN H6327
 BCR 133W H6327
 BCR 141

 E6327
 BCR 141S H6327
 BCR 141W H6327
 BCR 162 E6327
 BCR 183W H6327
 BCR 192 E6327
 BCR 198 E6327
 BCR 198 E6327

 S5PN H6327
 BCR 523U E6327
 BCR 533 E6327