REVISIONS								
LTR	DESCRIPTION	DATE	APPROVED					



Prepared in accordance with ASME Y14.24

Vendor item drawing

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Original d Y	date of Y-MM-	<sup>i</sup> drawi -DD	ng	CHECKED BY RAJESH PITHADIA																		
16-07-25				APPROVED BY CHARLES F. SAFFLE						POWER, LOW NOISE, RAIL TO RAIL AMPLIFIER, MONOLITHIC SILICON							ER,					
				SIZE CODE IDENT. NO. A 16236				dwg no. <b>V62/16621</b>														
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### 1. SCOPE

1.1 <u>Scope</u>. This drawing documents the general requirements of a high performance 105 MHz low power, low noise, rail to rail amplifier microcircuit, with an operating temperature range of -55°C to +125°C.

1.2 <u>Vendor Item Drawing Administrative Control Number</u>. The manufacturer's PIN is the item of identification. The vendor item drawing establishes an administrative control number for identifying the item on the engineering documentation:

	V62/16621 - Drawing number	Device type (See 1.2.1)	Case outline (See 1.2.2)	Lead finish (See 1.2.3)
1.2.1	Device type(s).			
	Device type	Generic		Circuit function
	01	ADA4805-2	105 MHz	low power, low noise rail to rail amplifier
1.2.2	Case outline(s). The case outline	s) are as specified herein.		

Outline letter	Number of pins	JEDEC PUB 95	Package style
Х	8	MO-187-AA	Small outline package

1.2.3 Lead finishes. The lead finishes are as specified below or other lead finishes as provided by the device manufacturer:

Finish designator	<u>Material</u>
А	Hot solder dip
В	Tin-lead plate
С	Gold plate
D	Palladium
E	Gold flash palladium
Z	Other

1.3 Absolute maximum ratings. 1/

Supply voltage (Vs)	11 V
Power dissipation (PD)	See figure 3
Common mode input voltage Differential input voltage	-VS – 0.7 V to +VS + 0.7 V $\pm 1$ V
Storage temperature range (TSTG) Lead temperature (soldering, 10 seconds)	-65°C to +125°C 300°C
Junction temperature (TJ)	150°C
Thermal resistance, junction to ambient (0JA)	123.8°C/W
Thermal resistance, junction to board ( $\theta_{JB}$ )	136.8°C/W
Thermal resistance, junction to case ( $\theta$ JC)	68.52°C/W

<u>1</u>/ Stresses beyond those listed under "absolute maximum rating" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under "recommended operating conditions" is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

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### 1.4 Recommended operating conditions. 2/

Supply voltage range (Vs)	-5 V to +5 V
Operating free-air temperature range (TA)	-55°C to +125°C

#### 2. APPLICABLE DOCUMENTS

JEDEC Solid State Technology Association

JEDEC PUB 95 - Registered and Standard Outlines for Semiconductor Devices

(Copies of these documents are available online at <u>http://www.jedec.org</u> or from JEDEC – Solid State Technology Association, 3103 North 10th Street, Suite 240–S, Arlington, VA 22201-2107).

#### 3. REQUIREMENTS

3.1 <u>Marking</u>. Parts shall be permanently and legibly marked with the manufacturer's part number as shown in 6.3 herein and as follows:

- A. Manufacturer's name, CAGE code, or logo
- B. Pin 1 identifier
- C. ESDS identification (optional)

3.2 <u>Unit container</u>. The unit container shall be marked with the manufacturer's part number and with items A and C (if applicable) above.

3.3 <u>Electrical characteristics</u>. The maximum and recommended operating conditions and electrical performance characteristics are as specified in 1.3, 1.4, and table I herein.

3.4 Design, construction, and physical dimension. The design, construction, and physical dimensions are as specified herein.

3.5 Diagrams.

3.5.1 <u>Case outline</u>. The case outline shall be as shown in 1.2.2 and figure 1.

3.5.2 Terminal connections. The terminal connections shall be as shown in figure 2.

3.5.3 <u>Maximum power dissipation versus temperature for a four layer board</u>. The maximum power dissipation versus temperature for a four layer board graph shall be as shown in figure 3.

2/ Use of this product beyond the manufacturers design rules or stated parameters is done at the user's risk. The manufacturer and/or distributor maintain no responsibility or liability for product used beyond the stated limits.

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Test	Symbol	Conditions $\underline{2}/$ VS = +5 V.	Temperature,	Device type	Lin	nits	Unit
		unless otherwise specified	.,,		Min	Max	
Dynamic performance							
-3 dB bandwidth		G = +1, VOUT = 0.02 VPP	+25°C	01	120 t	ypical	MHz
		G = +1, VOUT = 2 VPP			40 ty	pical	
Bandwidth for 0.1 dB flatness		G = +1, VOUT = 0.02 VPP	+25°C	01	18 typical		MHz
Slew rate	SR	G = +1, VOUT = 2 V step	+25°C	01	190 t	ypical	V/µs
		G = +2, VOUT = 4 V step			250 typical		]
Settling time to 0.1%	tS	G = +1, VOUT = 2 V step	+25°C	01	35 ty	/pical	ns
		G = +2, VOUT = 4 V step			78 typical		
Noise/distortion performation	ance						•
Second harmonic	HD2	fC = 20 kHz, VOUT = 2 VPP	+25°C	01	-114 1	ypical	dBc
		fC = 100 kHz, VOUT = 2 VPP			-102 typical		]
		fC = 20 kHz, VOUT = 4 VPP, G = +1			-109 1	ypical	]
		fC = 100 kHz, VOUT = 4 VPP, G = +1			-93 t <u>y</u>	pical	]
		fC = 20 kHz, VOUT = 4 VPP, G = +2			-113	ypical	]
		fC = 100 kHz, VOUT = 4 VPP, G = +2			-96 t <u>y</u>	pical	]
Third harmonic <u>3</u> /	HD3	fC = 20 kHz, VOUT = 2 VPP	+25°C	01	-140 1	ypical	dBc
		fC = 100 kHz, VOUT = 2 VPP			-128 typical		]
		fC = 20 kHz, VOUT = 4 VPP, G = +1			-143	ypical	]
		fC = 100 kHz, VOUT = 4 VPP, G = +1			-130 1	ypical	]
		fC = 20 kHz, VOUT = 4 VPP, G = +2			-142 1	ypical	]
		fC = 100 kHz, VOUT = 4 VPP, G = +2			-130 1	ypical	]

# TABLE I. <u>Electrical performance characteristics</u>. <u>1</u>/

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Test	Symbol	Conditions $\underline{2}/$ VS = +5 V.	Temperature, TA	Device type	Lin	Unit	
		unless otherwise specified			Min	Max	
Noise/distortion performa	nce – conti	nued.				•	•
Input voltage noise		f = 100 kHz	+25°C	01	5.2 ty	/pical	nV/ √Hz
Input voltage noise		1/f corner frequency	+25°C	01	8 ty	pical	Hz
0.1 Hz to 10 Hz voltage noise			+25°C	01	44 ty	vpical	nVrms
Input current noise		f = 100 kHz	+25°C	01	0.7 typical		pA/ √Hz
DC performance				1			1
Input offset voltage			+25°C	01		125	μV
					13 ty	pical	
Input offset voltage <u>4</u> /			-55°C to +125°C	01		2.7	μV/°C
anit					0.4 typical		
Input bias current			+25°C	01		800	nA
					550 t	ypical	
Input offset current			+25°C	01		25	nA
					2.1 ty	/pical	
Open loop gain		Vout = -4.0 V to +4.0 V	+25°C	01	107		dB
					111 t	ypical	
Input characteristics							
Input resistance, common mode			+25°C	01	50 typical		MΩ
Input resistance, differential mode			+25°C	01	260 t	ypical	kΩ

# TABLE I. Electrical performance characteristics - Continued. 1/

DLA LAND AND MARITIME	SIZE	CODE IDENT NO.	DWG NO.
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Test	Symbol	Conditions $\underline{2}/$ Vs = ±5 V,	Temperature, TA	Device type	Lin	nits	Unit
		unless otherwise specified			Min	Max	
Input characteristics – co	ntinued.						
Input capacitance			+25°C	01	1 ty	pical	pF
Input common mode voltage range			+25°C	01	-5.1	+4	V
Common mode		VIN, CM = -4.0 V to +4.0 V	+25°C	01	103		dB
rejection ratio					130 t	ypical	-
Output characteristics		I					
Rising edge output overdrive recovery time		VIN = +6 V to -6 V, G = +2	+25°C	01	95 ty	pical	ns
Falling edge output overdrive recovery time		VIN = +6 V to -6 V, G = +2	+25°C	01	100 t	ypical	ns
Output voltage swing		RL = 2 kΩ	+25°C	01	-4.98	+4.98	V
Short circuit current, sinking			+25°C	01	85 ty	pical	mA
Short circuit current, sourcing			+25°C	01	73 ty	vpical	mA
Linear output current		< 1% total harmonic distortion (THD) at 100 kHz, VOUT = 2 VPP	+25°C	01	±58 t	ypical	mA
Capacitive load drive		30% overshoot	+25°C	01	15 ty	pical	pF
Power supply					•		•
Operating range			+25°C	01	2.7	10	V
Quiescent current per			+25°C	01		625	μA
amplifier					570 t	ypical	
Positive power supply rejection ratio		+VS = 3 V to 5 V, -VS = -5 V	+25°C	01	100		dB
					119 t	ypical	
Negative power supply rejection ratio		+VS = +5 V, -VS = -3 V to -5 V	+25°C	01	100		dB
					122 t	ypical	

# TABLE I. <u>Electrical performance characteristics</u> – Continued. <u>1</u>/

DLA LAND AND MARITIME	SIZE	CODE IDENT NO.	DWG NO.	
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Test	Symbol	Conditions <u>5</u> /	Temperature, T₄	Device type	Limits		Unit
		unless otherwise specified			Min	Max	
Dynamic performance							
-3 dB bandwidth		G = +1, VOUT = 0.02 VPP	+25°C	01	105 t	ypical	MHz
		G = +1, VOUT = 2 VPP			35 ty	pical	
Bandwidth for 0.1 dB flatness		G = +1, VOUT = 0.02 VPP	+25°C	01	20 ty	pical	MHz
Slew rate	SR	G = +1, VOUT = 2 V step	+25°C	01	160 t	ypical	V/µs
		G = +2, VOUT = 4 V step			220 t	ypical	
Settling time to 0.1%	tS	G = +1, VOUT = 2 V step	+25°C	01	35 ty	pical	ns
		G = +2, VOUT = 4 V step			82 ty	pical	
Noise/distortion performa	ince		·				
Second harmonic	HD2	fc = 20 kHz, Vout = 2 Vpp	+25°C	01	-114 1	ypical	dBc
		fC = 100 kHz, VOUT = 2 VPP			-102 1	ypical	
		fc = 20 kHz, Vout = 4 Vpp, G = +2			-107 1	ypical	
		fC = 100 kHz, VOUT = 4 VPP, G = +2			-90 t <u>y</u>	/pical	
Third harmonic <u>3</u> /	HD3	fC = 20 kHz, VOUT = 2 VPP	+25°C	01	-135 1	ypical	dBc
		fc = 100 kHz, Vout = 2 Vpp			-126 1	ypical	
		fc = 20 kHz, Vout = 4 Vpp, G = +2			-143 1	ypical	
		fc = 100 kHz, Vout = 4 Vpp, G = +2	]		-130 1	ypical	

# TABLE I. <u>Electrical performance characteristics</u> – Continued. $\underline{1}$ /

DLA LAND AND MARITIME	SIZE	CODE IDENT NO.	DWG NO.	
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Test	Symbol	Conditions <u>5</u> / Vs = 5 V.	Temperature, TA	Device type	Limits		Unit
		unless otherwise specified			Min	Max	
Noise/distortion performa	nce – conti	nued.					
Input voltage noise		f = 100 kHz	+25°C	01	5.9 t <u>y</u>	ypical	nV/ √Hz
Input voltage noise		1/f corner frequency	+25°C	01	8 ty	pical	Hz
0.1 Hz to 10 Hz voltage noise			+25°C	01	54 ty	/pical	nVrms
Input current noise		f = 100 kHz	+25°C	01	0.6 t <u>y</u>	ypical	pA/ √Hz
DC performance							
Input offset voltage			+25°C	01		125	μV
					9 ty	pical	
Input offset voltage <u>4</u> /			-55°C to +125°C	01		2.7	μV/°C
anit					0.4 t <u>y</u>	ypical	
Input bias current			+25°C	01		720	nA
					470 t	ypical	
Input offset current			+25°C	01	0.4 t <u>y</u>	ypical	nA
Open loop gain		Vout = 1.25 V to 3.75 V	+25°C	01	105		dB
					109 t	ypical	
Input characteristics							
Input resistance, common mode			+25°C	01	50 ty	/pical	MΩ
Input resistance, differential mode			+25°C	01	260 t	ypical	kΩ

# TABLE I. Electrical performance characteristics - Continued. 1/

DLA LAND AND MARITIME	SIZE	CODE IDENT NO.	DWG NO.
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Test	Symbol	Conditions <u>5</u> / Vs = 5 V.	Temperature, TA	Device type	Lin	nits	Unit
		unless otherwise specified			Min	Max	
Input characteristics – co	ntinued.						
Input capacitance			+25°C	01	1 ty	pical	pF
Input common mode voltage range			+25°C	01	-0.1	+4	V
Common mode		VIN, CM = 1.25 V to 3.75 V	+25°C	01	103		dB
rejection ratio					133 t	ypical	
Output characteristics	1						
Rising edge output overdrive recovery time		VIN = -1 V to +6 V, G = +2	+25°C	01	130 t	ypical	ns
Falling edge output overdrive recovery time		VIN = -1 V to +6 V, G = +2	+25°C	01	145 t	ypical	ns
Output voltage swing		RL = 2 kΩ	+25°C	01	0.02	4.98	V
Short circuit current, sinking			+25°C	01	73 ty	pical	mA
Short circuit current, sourcing			+25°C	01	63 ty	vpical	mA
Linear output current		< 1% total harmonic distortion (THD) at 100 kHz, VOUT = 2 VPP	+25°C	01	±47 t	ypical	mA
Capacitive load drive		30% overshoot	+25°C	01	15 ty	pical	pF
Power supply				•	1		1
Operating range			+25°C	01	2.7	10	V
Quiescent current per			+25°C	01		520	μA
amplifier					500 t	ypical	
Positive power supply rejection ratio		+VS = 1.5 V to 3.5 V, -VS = -2.5 V	+25°C	01	100		dB
					120 t	ypical	
Negative power supply rejection ratio		+VS = +2.5 V, -VS = -1.5 V to -3.5 V	+25°C	01	100		dB
					126 t	ypical	

# TABLE I. <u>Electrical performance characteristics</u> – Continued. <u>1</u>/

DLA LAND AND MARITIME	SIZE	CODE IDENT NO.	DWG NO.
COLUMBUS, OHIO	A	16236	<b>V62/16621</b>
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Test	Symbol	Conditions $5/$ VS = 3 V.	Temperature, TA	Device type	Lin	nits	Unit
		unless otherwise specified			Min	Max	
Dynamic performance							
-3 dB bandwidth		G = +1, VOUT = 0.02 VPP	+25°C	01	95 ty	pical	MHz
		G = +1, VOUT = 1 VPP, +VS = 2 V, -VS = -1 V			30 ty	pical	
Bandwidth for 0.1 dB flatness		G = +1, VOUT = 0.02 VPP	+25°C	01	35 ty	pical	MHz
Slew rate	SR	G = +1, VOUT = 1 V step, +VS = 2 V, -VS = -1 V	+25°C	01	85 typical		V/µs
Settling time to 0.1%	ts	G = +1, VOUT = 1 V step	+25°C	01	41 typical		ns
Noise/distortion performa	ince						
Second harmonic distortion	HD2	fC = 20 kHz, VOUT = 1 VPP, +VS = 2 V, -VS = -1 V	+25°C	01	-123 t	ypical	dBc
		fC = 100 kHz, VOUT = 1 VPP, +VS = 2 V, -VS = -1 V			-107 t	ypical	
Third harmonic <u>3</u> / distortion	HD3	fC = 20 kHz, VOUT = 1 VPP, +VS = 2 V, -VS = -1 V	+25°C	01	-143 t	ypical	dBc
		fc = 100 kHz, Vout = 1 Vpp, +Vs = 2 V, -Vs = -1 V			-133 t	ypical	
Input voltage noise		f = 100 kHz	+25°C	01	6.3 ty	rpical	nV/ √Hz
Input voltage noise		1/f corner frequency	+25°C	01	8 typ	bical	Hz
0.1 Hz to 10 Hz voltage noise			+25°C	01	55 ty	pical	nVrms
Input current noise		f = 100 kHz	+25°C	01	0.8 ty	pical	pA/ √Hz

TABLE I.	<b>Electrical</b>	performance	characteristics -	Continued.	<u>1</u> /

DLA LAND AND MARITIME	SIZE	CODE IDENT NO.	DWG NO.
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Test	Symbol	Conditions <u>5</u> / Vs = 3 V	Temperature, T₄	Device type	Limits		Unit
		unless otherwise specified			Min	Max	
DC performance							
Input offset voltage			+25°C	01		125	μV
					7 ty	pical	
Input offset voltage <u>4</u> /			-55°C to +125°C	01		2.7	μV/°C
drift					0.4 ty	/pical	
Input bias current			+25°C	01		690	nA
					440 t	ypical	
Input offset current			+25°C	01	0.5 ty	/pical	nA
Open loop gain		VOUT = 1.1 V to 1.9 V	+25°C	01	100		dB
					107 t	ypical	
Input characteristics				•			•
Input resistance, common mode			+25°C	01	50 ty	pical	MΩ
Input resistance, differential mode			+25°C	01	260 t	ypical	kΩ
Input capacitance			+25°C	01	1 ty	pical	pF
Input common mode voltage range			+25°C	01	-0.1	+2	V
Common mode		VIN, CM = 0.5 V to 2 V	+25°C	01	89		dB
					117 t	ypical	

# TABLE I. Electrical performance characteristics - Continued. 1/

DLA LAND AND MARITIME	SIZE	CODE IDENT NO.	DWG NO.
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Test	Symbol	Conditions <u>5</u> / VS = 3 V	Temperature,	Device type	Limits		Unit
		unless otherwise specified			Min	Max	
Output characteristics							
Rising edge output overdrive recovery time		VIN = -1 V to +4 V, G = +2	+25°C	01	135 t	ypical	ns
Falling edge output overdrive recovery time		VIN = -1 V to +4 V, G = +2	+25°C	01	175 typical		ns
Output voltage swing		RL = 2 kΩ	+25°C	01	0.02	2.98	V
Short circuit current, sinking			+25°C	01	65 typical		mA
Short circuit current, sourcing			+25°C	01	47 typical		mA
Linear output current		< 1% total harmonic distortion (THD) at 100 kHz, VOUT = 1 VPP	+25°C	01	±40 typical		mA
Capacitive load drive		30% overshoot	+25°C	01	15 typical		pF
Power supply							
Operating range			+25°C	01	2.7	10	V
Quiescent current per			+25°C	01		495	μΑ
amplifier					470 t	ypical	
Positive power supply rejection ratio		+VS = 1.5 V to 3.5 V, -VS = -1.5 V	+25°C	01	96		dB
					119 t	ypical	
Negative power supply rejection ratio		+VS = +1.5 V, -VS = -1.5 V to -3.5 V +25°C 01 96			dB		
- ,					125 t	ypical	

TABLE I. <u>Electrical performance characteristics</u> - Continued. <u>1</u>/

1/ Testing and other quality control techniques are used to the extent deemed necessary to assure product performance over the specified temperature range. Product may not necessarily be tested across the full temperature range and all parameters may not necessarily be tested. In the absence of specific parametric testing, product performance is assured by characterization and/or design.

<u>2</u>/ Unless otherwise specified,  $RF = 0 \Omega$  for G = +1; otherwise  $RF = 1 k\Omega$ ,  $RL = 2 k\Omega$  to ground. All specification are per amplifier.

 $\underline{3}$ / fC is the fundamental frequency.

4/ Guaranteed, but not tested.

5/ Unless otherwise specified, RF = 0  $\Omega$  for G = +1; otherwise RF = 1 k $\Omega$ , RL = 2 k $\Omega$  to midsupply. All specification are per amplifier.

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FIGURE 1. Case outline.

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Case X

### Case X – continued.

	Dimensions					
Symbol		Inches			Millimeters	
	Minimum	Medium	Maximum	Minimum	Medium	Maximum
А			.043			1.10
A1	.029	.033	.037	0.75	0.85	0.95
A2	.001	.003 coplanarity	.005	0.05	0.10 coplanarity	0.15
b	.010		.015	0.25		0.40
С	.003		.009	0.09		0.23
D	.110	.118	.125	2.80	3.00	3.20
Е	.110	.118	.125	2.80	3.00	3.20
E1	.183	.192	.202	4.65	4.90	5.15
е		0.026 BSC			0.65 BSC	
L	.015	.021	.031	0.40	0.55	0.80

NOTES:

- Controlling dimensions are millimeter, inch dimensions are given for reference only.
  Falls with JEDEC MO-187-AA.

FIGURE 1. Case outline - Continued.

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Device type	01		
Case outline	X		
Terminal number	Terminal symbol	Description	
1	VOUT1	Output 1.	
2	-IN1	Inverting input 1.	
3	+IN1	Noninverting input 1.	
4	-Vs	Negative supply.	
5	+IN2	Noninverting input 2.	
6	-IN2	Inverting input 2.	
7	VOUT2	Output 2.	
8	+Vs	Positive supply.	

FIGURE 2. Terminal connections.

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FIGURE 3. Maximum power dissipation versus temperature for a four layer board.

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### 4. VERIFICATION

4.1 <u>Product assurance requirements</u>. The manufacturer is responsible for performing all inspection and test requirements as indicated in their internal documentation. Such procedures should include proper handling of electrostatic sensitive devices, classification, packaging, and labeling of moisture sensitive devices, as applicable.

### 5. PREPARATION FOR DELIVERY

5.1 <u>Packaging</u>. Preservation, packaging, labeling, and marking shall be in accordance with the manufacturer's standard commercial practices for electrostatic discharge sensitive devices.

#### 6. NOTES

6.1 ESDS. Devices are electrostatic discharge sensitive and are classified as ESDS class 1 minimum.

6.2 <u>Configuration control</u>. The data contained herein is based on the salient characteristics of the device manufacturer's data book. The device manufacturer reserves the right to make changes without notice. This drawing will be modified as changes are provided.

6.3 <u>Suggested source(s) of supply</u>. Identification of the suggested source(s) of supply herein is not to be construed as a guarantee of present or continued availability as a source of supply for the item. DLA Land and Maritime maintains an online database of all current sources of supply at <u>http://www.landandmaritime.dla.mil/Programs/Smcr/</u>.

Vendor item drawing administrative control number <u>1</u> /	Device manufacturer CAGE code	Mode of transportation and quantity	Vendor part number
V62/16621-01XE	24355	Tube, 50 units	ADA4805-2TRMZ-EP
V62/16621-01XE	24355	Reel, 1000 units	ADA4805-2TRMZ-EPR7

1/ The vendor item drawing establishes an administrative control number for identifying the item on the engineering documentation.

#### CAGE code

24355

Source of supply

Analog Devices Route 1 Industrial Park P.O. Box 9106 Norwood, MA 02062 Point of contact: Raheen Business Park Limerick, Ireland

DLA LAND AND MARITIME	SIZE	CODE IDENT NO.	DWG NO.
COLUMBUS, OHIO	A	16236	V62/16621
		REV	PAGE 17