

nadia nouri

*92. 4捷多邦,7专业PCB打样工厂,26小时加急出货

TOTAL :10

3 CHANNEL D/A CONVERTER FOR VIDEO PROCESSING

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DESCRIPTION

µPC666 is a video 6-bit 3-channel digital analog converter having the following features: High speed and high precision bipolar processing technology for excellent performance of 35 MHz, ±0,5 LSB (MAX.); three channels of identical digital analog converters; power consumption minimized to 175 mW (TYP.); because the three channels are laid out on the same chip, little deviation among the converters, ideal for processing RGB, R-Y, B-Y, and Y signals, where strict deviation control is essential; and reference voltage generating circuit for simplified circuit configuration. WWW.DZSC.CC

FEATURES

Panied in Japan

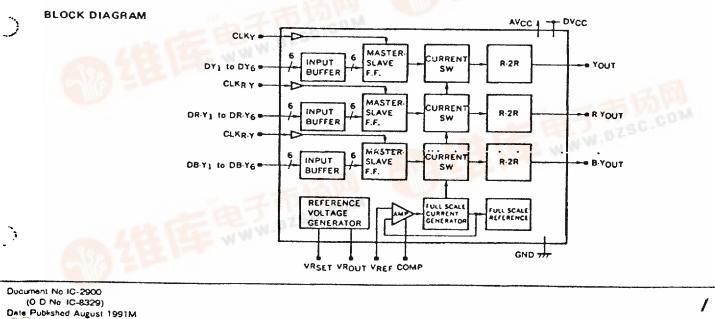
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- 6-bit digital analog converter
- Clock rate: 35 Msps
- Conversion precision: ±0.5 LSB (MAX.)
- 5 V single power supply
- 3 channels incorporated
- Reference voltage generating circuit incorporated
- Power consumption: 175 mW (TYP.)

ORDERING INFORMATION

PART NUMBER	PACKAGE	QUALITY GRADE
#PC666G\$	36 Pin Plastic SOP (300 mil)	Standard

Please refer to "Quality grade on NEC Semiconductor Devices" (Document number IEI-1209) published by NEC Corporation to know the specification of quality grade on the devices and its recommended applications.



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ABSOLUTE MAXIMUM RATINGS (Ta = 25 °C)

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Power Voltage	AVcc, DVcc	-0.3 to +6.0	v
 Pin Input Voltage 	VIN	–0.3 to V _{CC} +0.3	v
Operation Temperature Range	Topt	-20 to +75	°c
Storage Temperature Range	Tstg	-40 to +125	°c
Package Allowable Loss	PD	560	mW

RECOMMENDED OPERATING CONDITIONS (Ta = -20 to +75 °C)

IT EM	SYMBOL	MIN,	TYP.	MAX.	UNIT	TEST CONDITION
Power Voltage	AVCC, DVCC	4.75	5.0	5.25	V	AGND - DGND - 0
Analog Reference Voltage	VREF	3.70	4.00	4.30	v	
Digital Input High Level Voltage	VINDH	2.0	- 1	- 1	V	
Digital Input Low Level Voltage	VINDL	-	-	0.8	v	
Sampling Frequency	†samp	-	-	35	MHz	
Data Input Set Up Time	۱ _s	15.0	-	- 1	ns	
Data Input Hold Time	^t h	4.0	-		ns	
Sampling Clock High Pulse Width	труйн	10		1000	ns	
Sampling Clock Low Pulse Width	1PWL	10	1	1000	ns	
Compensation Capacity	Ccomp	1.0	-	-	μF	

ELECTRIC CHARACTERISTICS (Ta = -20 to +75 °C, AV_{CC} = DV_{CC} = 5±0.25 V)

ITEM	SYMBOL	MIN.	TYP.	MAX	UNIT	TEST CONDITIONS
Power Consumption	'cc		35	49	mA	T_ = 25 °C
Integral Linearity Error	ILE	1		±0.5	LSB	T = 0 to +75 °C
Differential Linearity Error	DLE		1	±05	LSB	T _a = 0 to +75 °C
Output Voltage Full-Scale Precision	Vofs	0.836	0.984	1.132	v	$AV_{CC} = DV_{CC} = 5.0 V$, $V_{REF} = 4.0 V$ This precision is the difference between the full-scale output voltage and zero- scale output voltage.
RGB Output Voltage Ratio	FSR	-0.8	0	+8.0	*	
Reference Power Supply Output Voltage	VROUT	3.8	4.0	4.2	V	AVCC = DVCC = 5.0 V
Output Delay fime	סי	1	15	25	6.0	
Setting Time	1SET	1	25	40	ns	CL = 5 pF

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DESCRIPTION OF PINS

PIN NO.	EQUIVALENT CIRCUIT	FUNCTIONS
34, 35, 36, 1, 2, 3	34 DVCC DVCC DVCC DVCC DVCC DVCC	34 : Y channel digital input (MSB) 35 : Y channel digital input (2nd) 36 : Y channel digital input (3rd) 1 : Y channel digital input (4th) 2 : Y channel digital input (5th) 3 : Y channel digital input (LSB)
4,5, 6,7, 8,9	A DOUD DOUD	4 : R-Y channel digital input (MSB) 5 : R-Y channel digital input (2nd) 6 : R-Y channel digital input (3rd) 7 : R-Y channel digital input (4th) 8 : R-Y channel digital input (5th) 9 : R-Y channel digital input (LSB)
10, 11, 12, 13, 14, 15		10 : B-Y channel digital input (MSB) 11 : B-Y channel digital input (2nd) 12 : B-Y channel digital input (2nd) 13 : B-Y channel digital input (4th) 14 : B-Y channel digital input (5th) 15 : B-Y channel digital input (LSB)
16, 17, 18	16 DVCC T DVCC DVCC DVCC DVCC DVCC DVCC	16 : B—Y channel clock input 17 : R—Y channel clock input 18 : Y channel clock input
20, 33	<u>−</u>	Digital power pin

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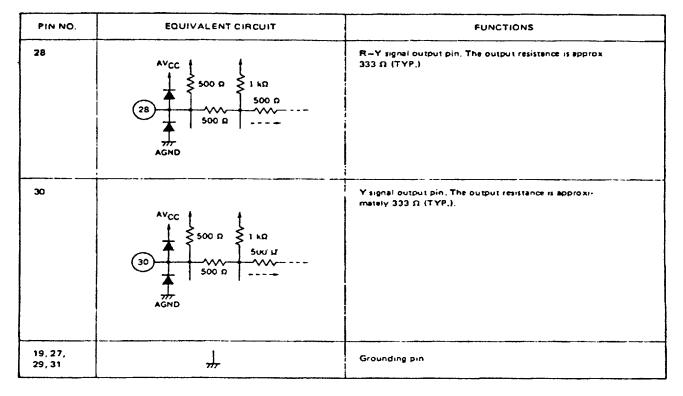
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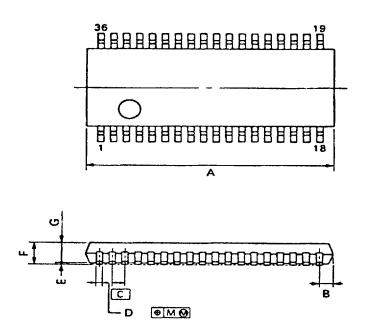


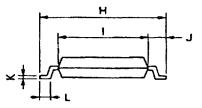
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36 PIN PLASTIC SHRINK SOP(300mil)





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NOTE

Each lead centerline is located within 0 10 mm (0.004 inch) of its true position (T.P.) at maximum material condition.

·		P38GM-80-3
тем	MILLIMETERS	INCHES
A	15.54 MAX.	0 612 MAX.
8	0.97 MAX.	0 039 MAX.
с	0.8 (T.P.)	0 031 (T.P.)
D	0.35-8 28	0 014 - 8 885
E	0.1***	0 004 = 0 004
F	1.8 MAX	0 071MAX.
G	1.55	0.061
н	7.7 * 0 3	0 303 = 0 012
1	56	0 220
J	1.1	0.043
к	0.20:838	0.008 \$ 885
L	0 6 1 0 2	0 024 '8 88
м	0 10	0.004