Description

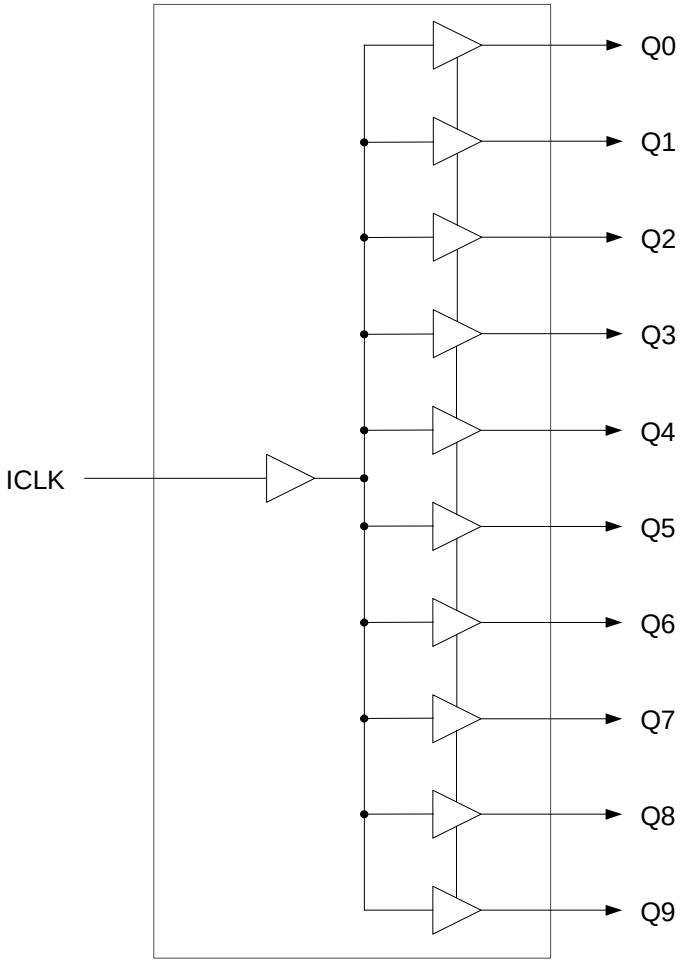
The 74FCT3807S is a low skew, single input to ten output, clock buffer. The 74FCT3807S has best in class additive phase Jitter of sub 50 fsec.

IDT makes many non-PLL and PLL based low skew output devices as well as Zero Delay Buffers to synchronize clocks. Contact us for all of your clocking needs.

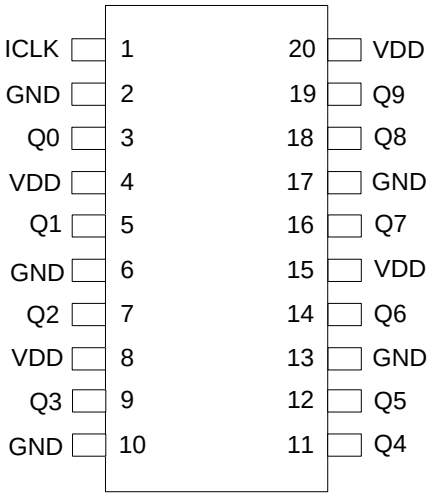
Features

- Low additive phase jitter RMS: 50fs
- Low skew outputs (50ps)
- Packaged in 20-pin TSSOP, SSOP, QSOP and VFQFPN packages, Pb (lead) free
- Operating voltages of 1.8V to 3.3V
- Input/Output clock frequency up to 200 MHz
- Advanced, low power CMOS process
- Extended temperature range (-40°C to +105°C)

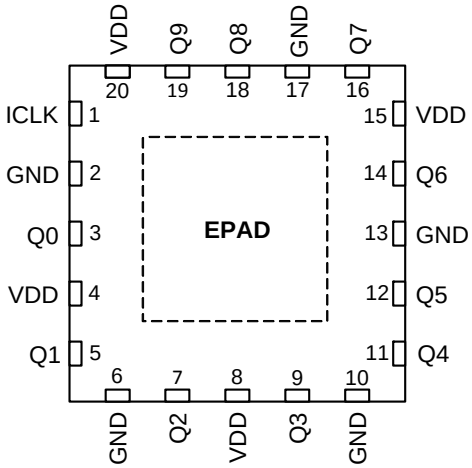
Block Diagram



Pin Assignments



20-pin TSSOP/SSOP/QSOP



20-pin VFQFPN

Pin Descriptions

Pin Number	Pin Name	Pin Type	Pin Description
1	ICLK	Input	Clock input.
2	GND	Power	Connect to ground.
3	Q0	Output	Clock output 0.
4	VDD	Power	Connect to +1.8V, +2.5 V, or +3.3 V.
5	Q1	Output	Clock output 1.
6	GND	Power	Connect to ground.
7	Q2	Output	Clock Output 2.
8	VDD	Power	Connect to +1.8V, +2.5 V, or +3.3 V.
9	Q3	Output	Clock Output 3.
10	GND	Power	Connect to ground.
11	Q4	Output	Clock Output 4.
12	Q5	Output	Clock Output 5.
13	GND	Power	Connect to ground.
14	Q6	Output	Clock Output 6.
15	VDD	Power	Connect to +1.8V, +2.5 V, or +3.3 V.
16	Q7	Output	Clock Output 7.
17	GND	Power	Connect to ground.
18	Q8	Output	Clock Output 8.
19	Q9	Output	Clock Output 9.
20	VDD	Power	Connect to +1.8V, +2.5 V, or +3.3 V.

External Components

A minimum number of external components are required for proper operation. A decoupling capacitor of 0.01µF should be connected between VDD pins and GND pins, as close to the device as possible. A 33Ω series terminating resistor may be used on each clock output if the trace is longer than 1 inch.

To achieve the low output skew that the 74FCT3807S is capable of, careful attention must be paid to board layout. Essentially, all ten outputs must have identical terminations, identical loads and identical trace geometries. If they do not, the output skew will be degraded. For example, using a 30Ω series termination on one output (with 33Ω on the others) will cause at least 15 ps of skew.

Absolute Maximum Ratings

Stresses above the ratings listed below can cause permanent damage to the 74FCT3807S. These ratings, which are standard values for IDT commercially rated parts, are stress ratings only. Functional operation of the device at these or any other conditions above those indicated in the operational sections of the specifications is not implied. Exposure to absolute maximum rating conditions for extended periods can affect product reliability. Electrical parameters are guaranteed only over the recommended operating temperature range.

Item	Rating
Supply Voltage, VDD	3.465V
Outputs	-0.5 V to VDD+0.5 V
ICLK	3.465V
Ambient Operating Temperature (extended)	-40° to +105°C
Storage Temperature	-65° to +150°C
Junction Temperature	125°C
Soldering Temperature	260°C

Recommended Operation Conditions

Parameter	Min.	Typ.	Max.	Units
Ambient Operating Temperature (extended)	-40		+105	°C
Power Supply Voltage (measured in respect to GND)	+1.71		+3.465	V

DC Electrical Characteristics

(VDD = 1.8V, 2.5V, 3.3V)

VDD=1.8V ±5% , Ambient temperature -40° to +105°C, unless stated otherwise

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Operating Voltage	VDD		1.71		1.89	V
Input High Voltage, ICLK	V_{IH}	Note 1	0.7xVDD		VDD	V
Input Low Voltage, ICLK	V_{IL}	Note 1			0.3xVDD	V
Output High Voltage	V_{OH}	I_{OH} = -10 mA	1.3			V
Output Low Voltage	V_{OL}	I_{OL} = 10 mA			0.35	V
Operating Supply Current	IDD	No load, 135 MHz		35		mA
Nominal Output Impedance	Z_O			17		Ω
Input Capacitance	C_{IN}	ICLK		5		pF

Notes: 1. Nominal switching threshold is VDD/2

VDD=2.5 V ±5%, Ambient temperature -40° to +105°C, unless stated otherwise

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Operating Voltage	VDD		2.375		2.625	V
Input High Voltage, ICLK	V_{IH}	Note 1	0.7xVDD		VDD	V
Input Low Voltage, ICLK	V_{IL}	Note 1			0.3xVDD	V
Output High Voltage	V_{OH}	I_{OH} = -16 mA	1.8			V
Output Low Voltage	V_{OL}	I_{OL} = 16 mA			0.5	V
Operating Supply Current	IDD	No load, 135 MHz		45		mA
Nominal Output Impedance	Z_O			17		Ω
Input Capacitance	C_{IN}	ICLK		5		pF

VDD=3.3 V ±5% , Ambient temperature -40° to +105°C, unless stated otherwise

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Operating Voltage	VDD		3.15		3.45	V
Input High Voltage, ICLK	V_{IH}	Note 1	0.7xVDD		VDD	V
Input Low Voltage, ICLK	V_{IL}	Note 1			0.3xVDD	V
Output High Voltage	V_{OH}	I_{OH} = -25 mA	2.2			V
Output Low Voltage	V_{OL}	I_{OL} = 25 mA			0.7	V
Operating Supply Current	IDD	No load, 135 MHz		55		mA
Nominal Output Impedance	Z_O			17		Ω
Input Capacitance	C_{IN}	ICLK		5		pF

AC Electrical Characteristics

(VDD = 1.8V, 2.5V, 3.3V)

VDD = 1.8V ±5%, Ambient Temperature -40° to +105°C, unless stated otherwise

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Input Frequency			0		200	MHz
Output Rise Time	t_{OR}	0.36 to 1.44 V, C_L=5 pF		1.4	1.9	ns
Output Fall Time	t_{OF}	1.44 to 0.36 V, C_L=5 pF		1.4	1.9	ns
Propagation Delay		Note 1	1.5	2.5	4	ns
Buffer Additive Phase Jitter, RMS		125MHz, Integration Range: 12kHz-20MHz			0.05	ps
Output to Output Skew		Rising edges at VDD/2, Note 2		50	65	ps
Device to Device Skew		Rising edges at VDD/2			200	ps
Start-up Time	$t_{START-UP}$	Part start-up time for valid outputs after VDD ramp-up			2	ms

VDD = 2.5 V ±5%, Ambient Temperature -40° to +105°C, unless stated otherwise

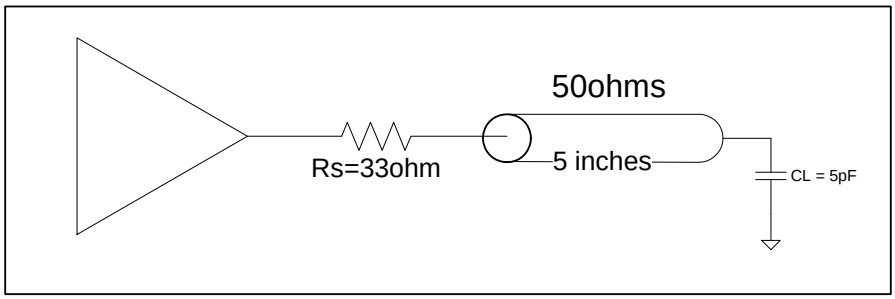
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Input Frequency			0		200	MHz
Output Rise Time	t_{OR}	0.5 to 2.0 V, C_L=5 pF		1.0	1.5	ns
Output Fall Time	t_{OF}	2.0 to 0.5 V, C_L=5 pF		1.0	1.5	ns
Propagation Delay		Note 1	1.8	2.5	4.5	ns
Buffer Additive Phase Jitter, RMS		125MHz, Integration Range: 12kHz-20MHz			0.05	ps
Output to Output Skew		Rising edges at VDD/2, Note 2		50	65	ps
Device to Device Skew		Rising edges at VDD/2			200	ps
Start-up Time	$t_{START-UP}$	Part start-up time for valid outputs after VDD ramp-up			2	ms

VDD = 3.3 V ±5%, Ambient Temperature -40° to +105°C, unless stated otherwise

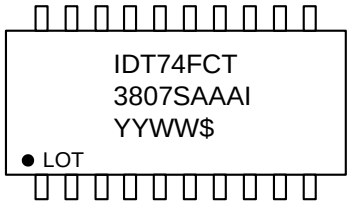
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Input Frequency			0		200	MHz
Output Rise Time	t_{OR}	0.66 to 2.64 V, C_L=5 pF		0.6	1.0	ns
Output Fall Time	t_{OF}	2.64 to 0.66 V, C_L=5 pF		0.6	1.0	ns
Propagation Delay		Note 1	1.5	2.5	4	ns
Buffer Additive Phase Jitter, RMS		125MHz, Integration Range: 12kHz-20MHz			0.05	ps
Output to Output Skew		Rising edges at VDD/2, Note 2		50	65	ps
Device to Device Skew		Rising edges at VDD/2			200	ps
Start-up Time	$t_{START-UP}$	Part start-up time for valid outputs after VDD ramp-up			2	ms

Notes:
1. With rail to rail input clock
2. Between any 2 outputs with equal loading.
3. Duty cycle on outputs will match incoming clock duty cycle. Consult IDT for tight duty cycle clock generators.

Test Load and Circuit



Marking Diagrams



20-pin TSSOP/SSOP/QSOP

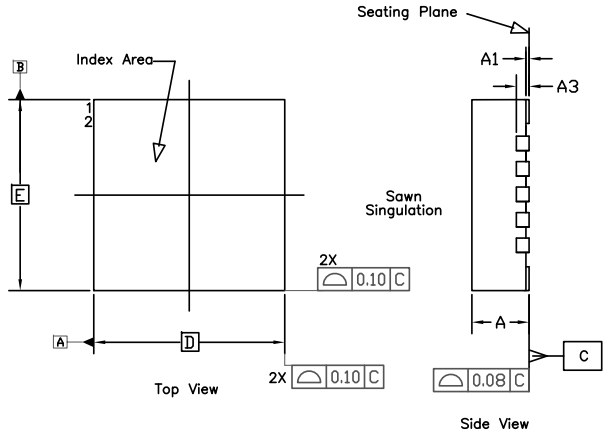
20-pin VFQFPN

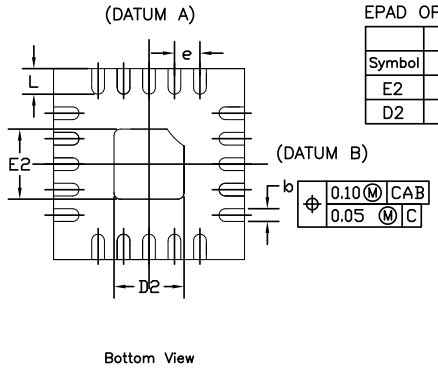
Notes:

1. “LOT” denotes the lot number.
2. “XXX” denotes the lot number.
3. “YYWW” or “YWW” are the last digits of the year and week that the part was assembled.
4. “$” denotes mark code.
5. “I” denotes extended temperature range device.
6. “AAA” denotes package code.

Package Outline and Package Dimensions (20-pin VFQFPN)

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	11/14/08	RC
01	ADD EPAD OPTION	11/28/12	RC
02	COMBINE POD & LAND PATTERN	12/5/13	J.HUA
03	Change Dimension aaa	7/14/14	J.HUA





EPAD OPTION

	P1			P2		
Symbol	MIN	NOM	MAX	MIN	NOM	MAX
E2	0.95	1.10	1.25	1.55	1.65	1.75
D2	0.95	1.10	1.25	1.55	1.65	1.75

NOTE :

1. ALL DIMENSIONS ARE IN mm. ANGLES IN DEGREES.
2. COPLANARITY APPLIES TO THE EXPOSED PAD AS WELL AS THE TERMINALS. COPLANARITY SHALL NOT EXCEED 0.05 mm.
3. WARPAGE SHALL NOT EXCEED 0.05 mm.
4. PACKAGE LENGTH / PACKAGE WIDTH ARE CONSIDERED AS SPECIAL CHARACTERISTIC. (S)
5. REFER JEDEC MO-220.

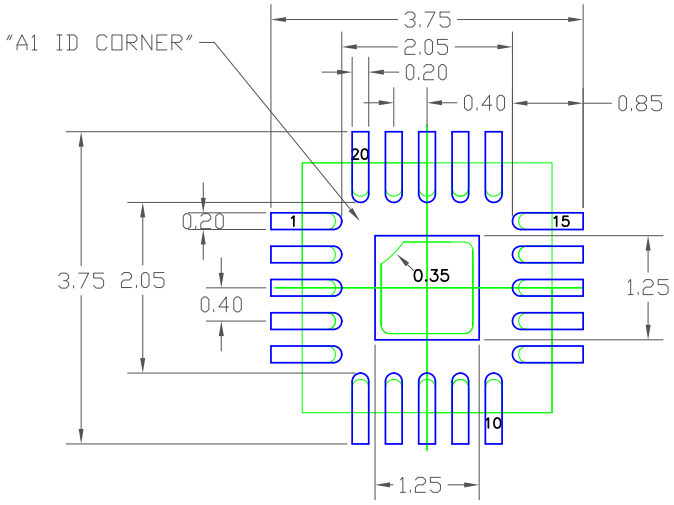
COMMON DIMENSION

	DIMENSION		
Symbol	Min	Nom	Max
A	0.80	0.90	1.00
A1	0	0.02	0.05
A3	0.20 Ref		
b	0.17	0.20	0.25
e	0.40 BASIC		
N	20		
ND	5		
NE	5		
D	3.00 BASIC		
E	3.00 BASIC		
D2	SEE EPAD OPTION		
E2	SEE EPAD OPTION		
L	0.30	0.40	0.50

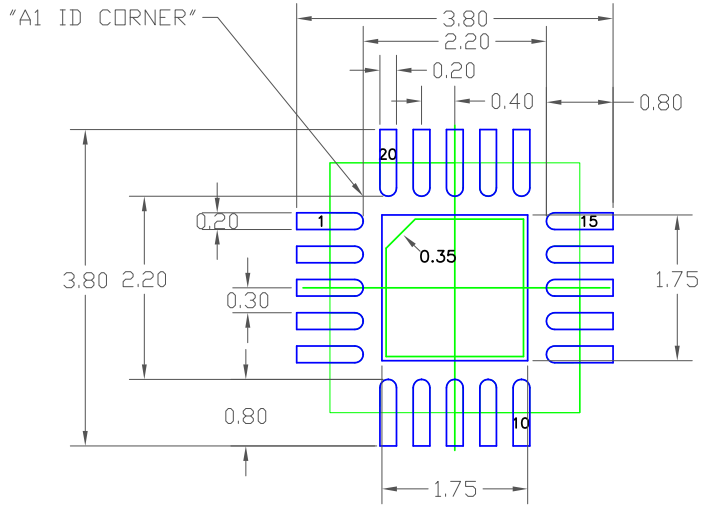
TOLERANCES UNLESS SPECIFIED DECIMAL ANGULAR X± ±1° XX± XXX±	IDT® www.IDT.com 6024 Silver Creek Valley Road San Jose CA 95138 PHONE: (408) 284-8200 FAX: (408) 284-8591
APPROVALS DATE DRAWN RAC 11/14/08 CHECKED	TITLE ND/NDG 20 PACKAGE OUTLINE 3.0 x 3.0 mm BODY, 0.40 PITCH QFN
	SIZE C · DRAWING No. PSC-4179 · REV 03
	DO NOT SCALE DRAWING · SHEET 1 OF 2

REVISION A 03/18/15

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	11/14/08	RC
01	ADD EPAD OPTION	11/28/12	RC
02	COMBINE POD & LAND PATTERN	12/5/13	J.HUA
03	Change dimension aaa	7/14/14	J.HUA



EPAD 1.1 mm SQ



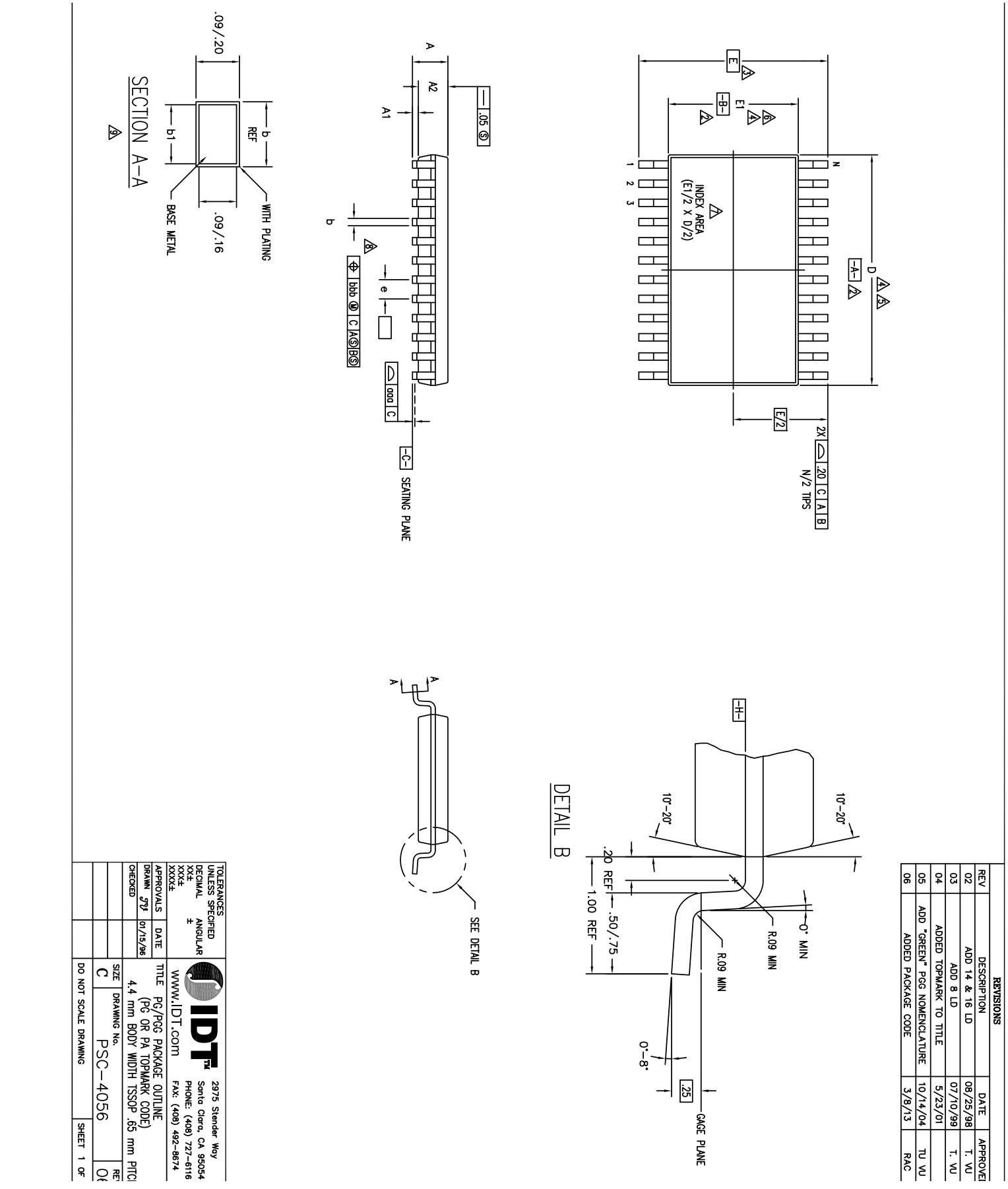
EPAD 1.65 mm SQ

RECOMMENDED LAND PATTERN DIMENSION

NOTES:
1. ALL DIMENSION ARE IN mm. ANGLES IN DEGREES.
2. TOP DOWN VIEW. AS VIEWED ON PCB.
3. COMPONENT OUTLINE SHOW FOR REFERENCE IN GREEN.
4. LAND PATTERN IN BLUE. NSMD PATTERN ASSUMED.
5. LAND PATTERN RECOMMENDATION PER IPC-7351B GENERIC REQUIREMENT FOR SURFACE MOUNT DESIGN AND LAND PATTERN.

TOLERANCES UNLESS SPECIFIED DECIMAL X± XX± XXX± ANGULAR ±1°	IDT® www.IDT.com 6024 Silver Creek Valley Road San Jose CA 95138 PHONE: (408) 284-8200 FAX: (408) 284-8591
APPROVALS / DATE	TITLE: ND/NDG 20 PACKAGE OUTLINE 3.0 x 3.0 mm BODY, 0.40 PITCH QFN
DRAWN RAC 11/14/08	
CHECKED	
	SIZE C / DRAWING No. PSC-4179 / REV 03
	DO NOT SCALE DRAWING / SHEET 2 OF 2

Package Outline and Package Dimensions (20-pin TSSOP)



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
02	ADD 14 & 16 LD	08/25/98	T. VU
03	ADD 8 LD	07/10/99	T. VU
04	ADDED TOPMARK TO TITLE	5/23/01	
05	ADD "GREEN" PGG NOMENCLATURE	10/14/04	TU VU
06	ADDED PACKAGE CODE	3/8/13	RAC

PG/PGG20			
JEDEC VARIATION AC			NOTE
MIN	NOM	MAX	
–	–	1.20	
.05	–	.15	
.80	1.00	1.05	
6.40	6.50	6.60	4,5
6.40 BSC			3
4.30	4.40	4.50	4,6
.65 BSC			
.19	–	.30	
.19	.22	.25	
–	–	.10	
–	–	.10	
20			

NOTES:

1 ALL DIMENSIONING AND TOLERANCING CONFORM TO ASME Y14.5M–1994

2 DATUMS -A- AND -B- TO BE DETERMINED AT DATUM PLANE -H-

3 DIMENSION E TO BE DETERMINED AT SEATING PLANE -C-

4 DIMENSIONS D AND E1 ARE TO BE DETERMINED AT DATUM PLANE -H-

5 DIMENSION D DOES NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS. MOLD FLASH, PROTRUSIONS OR GATE BURRS SHALL NOT EXCEED .15 mm PER SIDE

6 DIMENSION E1 DOES NOT INCLUDE INTERLEAD FLASH OR PROTRUSIONS. INTERLEAD FLASH OR PROTRUSIONS SHALL NOT EXCEED .25 mm PER SIDE

7 DETAIL OF PIN 1 IDENTIFIER IS OPTIONAL BUT MUST BE LOCATED WITHIN THE ZONE INDICATED

8 LEAD WIDTH DIMENSION DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION IS .08 mm IN EXCESS OF THE LEAD WIDTH DIMENSION AT MAXIMUM MATERIAL CONDITION. DAMBAR CANNOT BE LOCATED ON THE LOWER RADIUS OR THE FOOT

9 THESE DIMENSIONS APPLY TO THE FLAT SECTION OF THE LEAD BETWEEN .10 AND .25 mm FROM THE LEAD TIP

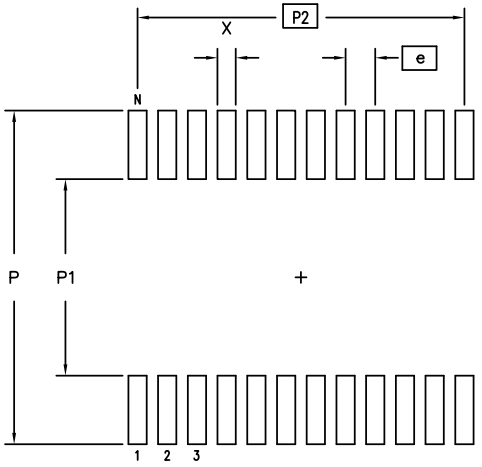
10 ALL DIMENSIONS ARE IN MILLIMETERS

11 THIS OUTLINE CONFORMS TO JEDEC PUBLICATION 95 REGISTRATION MO–153, VARIATION AA, AB–1, AB, AC, AD & AE

TOLERANCES UNLESS SPECIFIED DECIMAL XX± XXX± XXXX± ANGULAR ±		IDT™ www.IDT.com	2975 Stender Way Santa Clara, CA 95054 PHONE: (408) 727–6116 FAX: (408) 492–8674
APPROVALS	DATE	TITLE	PG/PGG PACKAGE OUTLINE (PG OR PA TOPMARK CODE) 4.4 mm BODY WIDTH TSSOP .65 mm PITCH
DRAWN JPV	01/15/96		
CHECKED		SIZE C	DRAWING No. PSC–4056 REV 06
		DO NOT SCALE DRAWING	SHEET 2 OF 3

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
02	ADD 14 & 16 LD	08/25/98	T. VU
03	ADD 8 LD	07/10/99	T. VU
04	ADDED TOPMARK TO TITLE	5/23/01	
05	ADD "GREEN" PGG NOMENCLATURE	10/14/04	TU VU
06	ADDED PACKAGE CODE	3/8/13	RAC

LAND PATTERN DIMENSIONS



MIN	MAX
7.20	7.40
4.20	4.40
5.85 BSC	
.30	.50
.65 BSC	
20	

TOLERANCES UNLESS SPECIFIED
DECIMAL XX± XXX± XXXX±
ANGULAR ±

APPROVALS	DATE
DRAWN GV	01/15/96
CHECKED	

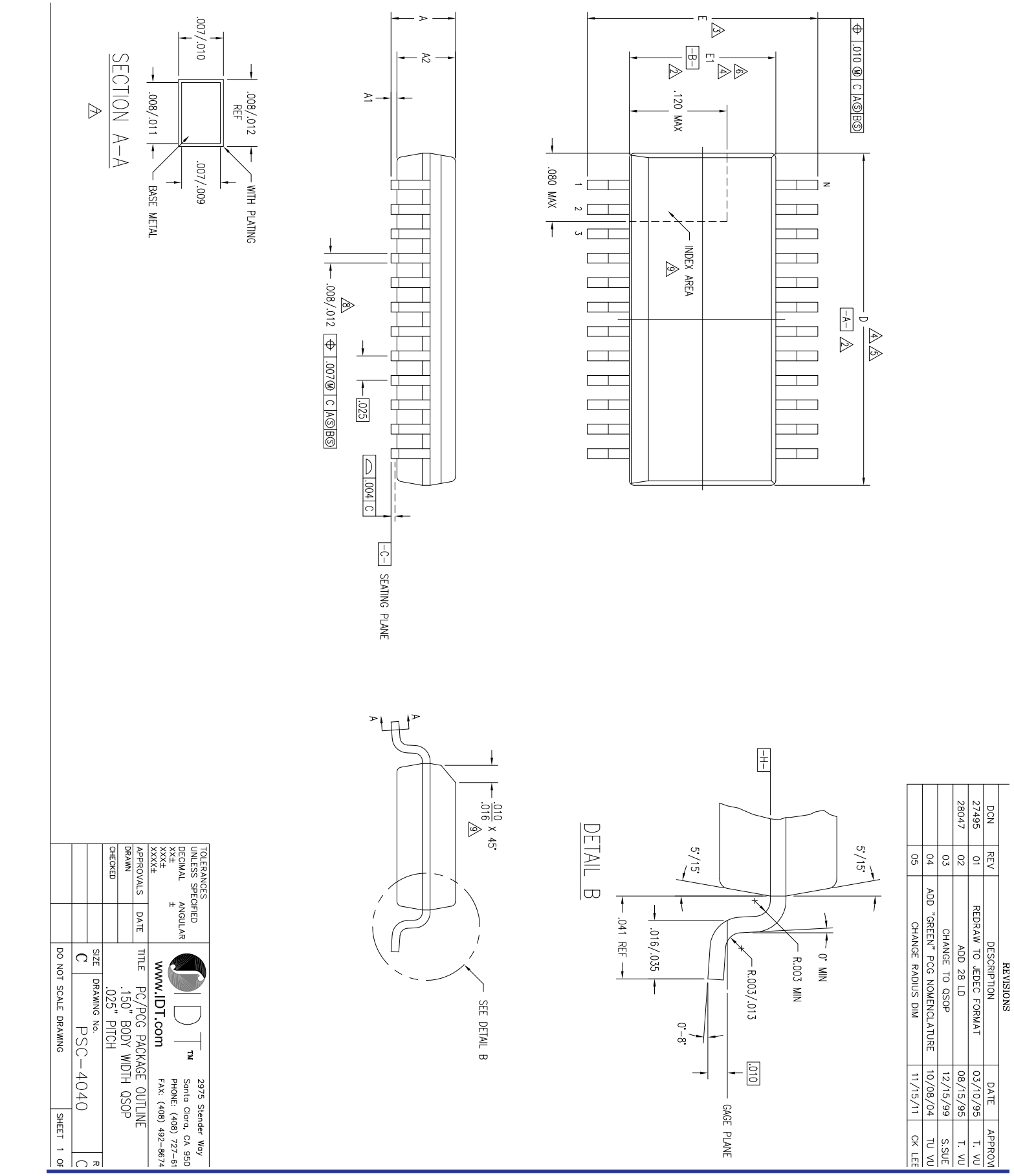
IDT™ www.IDT.com
2975 Stender Way
Santa Clara, CA 95054
PHONE: (408) 727-6116
FAX: (408) 492-8674

TITLE PG/PGG PACKAGE OUTLINE
(PG OR PA TOPMARK CODE)
4.4 mm BODY WIDTH TSSOP .65 mm PITCH

SIZE	DRAWING No.	REV
C	PSC-4056	06

DO NOT SCALE DRAWING | SHEET 3 OF 3

Package Outline and Package Dimensions (20-pin QSOP)

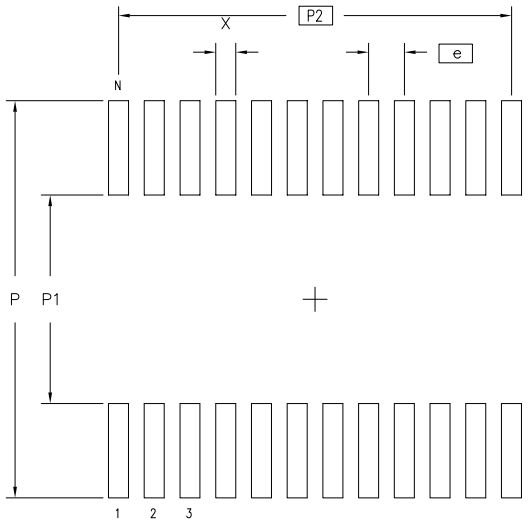


Package Outline and Package Dimensions, cont. (20-pin QSOP)

REVISIONS				
DCN	REV	DESCRIPTION	DATE	APPROVED
28047	02	ADD 28 LD	08/15/95	T. VU
	03	CHANGE TO QSOP	12/15/99	S.SUE
	04	ADD "GREEN" PCG NOMENCLATURE	10/08/04	TU VU
	05	CHANGE RADIUS DIM	11/15/11	CK LEE

JEDEC VARIATION			NOTE
AD			
MIN	NOM	MAX	
.061	.064	.068	
.004	.006	.010	
.055	.058	.061	11
.337	.342	.344	4,5
.230	.236	.244	3
.150	.155	.157	4,6
20			

LAND PATTERN DIMENSIONS



MIN	MAX
.274	.282
.142	.150
.225 BSC	
.010	.018
.025 BSC	
20	

NOTES:

1. ALL DIMENSIONING AND TOLERANCING CONFORM TO ANSI Y14.5M–1982
2. DATUMS -A- AND -B- TO BE DETERMINED AT DATUM PLANE -H-
3. DIMENSION E TO BE DETERMINED AT SEATING PLANE -C-
4. DIMENSIONS D AND E1 ARE TO BE DETERMINED AT DATUM PLANE -H-
5. DIMENSION D DOES NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS. MOLD FLASH, PROTRUSIONS AND GATE BURRS SHALL NOT EXCEED .006 PER SIDE
6. DIMENSION E1 DOES NOT INCLUDE INTERLEAD FLASH OR PROTRUSIONS. INTERLEAD FLASH OR PROTRUSIONS SHALL NOT EXCEED .010 PER SIDE
7. THESE DIMENSIONS APPLY TO THE FLAT SECTION OF THE LEAD BETWEEN .005 AND .010 FROM LEAD TIP
8. LEAD WIDTH DIMENSION DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION IS .004 IN EXCESS OF THE LEAD WIDTH DIMENSION AT MAXIMUM MATERIAL CONDITION. DAMBAR CANNOT BE LOCATED ON THE LOWER RADIUS OR THE FOOT
9. THE CHAMFER ON THE PACKAGE BODY IS OPTIONAL. IF IT IS NOT PRESENT, A VISUAL INDEX FEATURE MUST BE LOCATED WITHIN THE ZONE INDICATED
10. ALL DIMENSIONS ARE IN INCHES
11. THIS OUTLINE CONFORMS TO JEDEC PUBLICATION 95 REGISTRATION MO–137, VARIATION AB, AD, AE & AF. EXCEPTIONS: JEDEC DIMENSION A2 MAX IS .059

TOLERANCES UNLESS SPECIFIED
DECIMAL XX± XXX± XXXX±
ANGULAR ±

APPROVALS	DATE
DRAWN	
CHECKED	

IDT™ www.IDT.com
2975 Stender Way
Santa Clara, CA 95054
PHONE: (408) 727–6116
FAX: (408) 492–8674

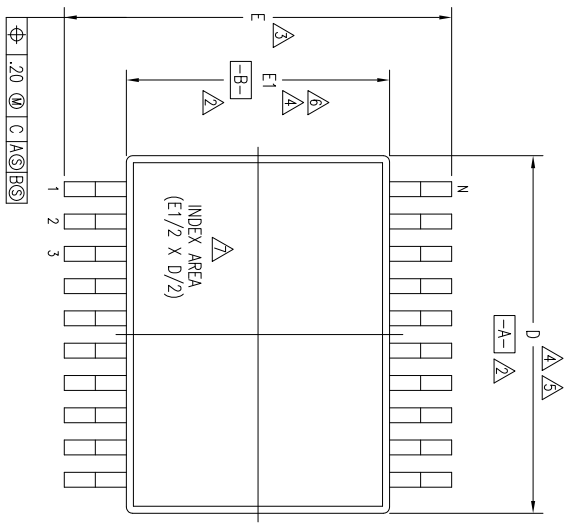
TITLE PC/PCG PACKAGE OUTLINE .150" BODY WIDTH QSOP .025" PITCH

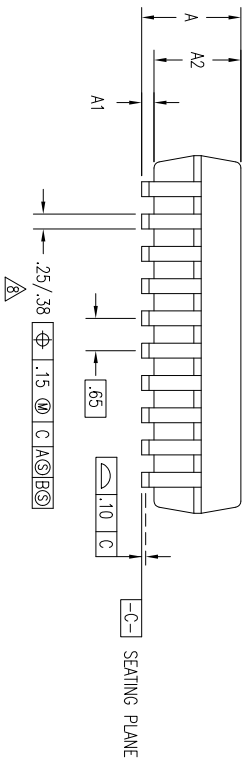
SIZE	DRAWING No.	REV
C	PSC–4040	05

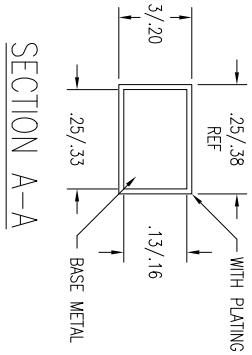
DO NOT SCALE DRAWING — SHEET 2 OF 2

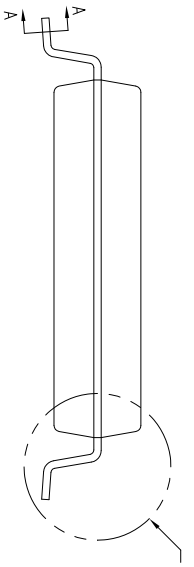
REVISION A 03/18/15

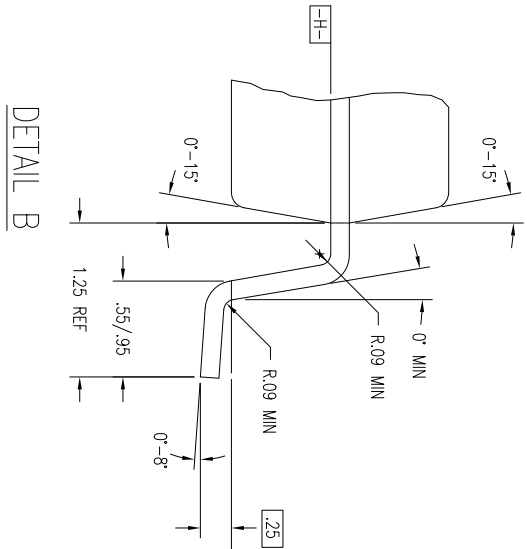
Package Outline and Package Dimensions (20-pin SSOP)











02	REDRAW TO JEDEC FORMAT	03/15/95	T. VU
03	ADD 14 & 16 LD	08/25/98	T. VU
04	ADDED TOPMARK TO TITLE	5/23/01	T. VU
05	ADD "GREEN" PYG NOMENCLATURE	10/12/04	TU VU
06	ADDED PACKAGE CODE	12/12/12	RC

TOLERANCES UNLESS SPECIFIED
DECIMAL ANGULAR
XX± ±
XXX±
XXXX±

APPROVALS | DATE
DRAWN
CHECKED

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SAN JOSE CA 95138
PHONE: (408) 284-8200
FAX: (408) 284-8591
www.IDT.com

TITLE: PY/PYG PACKAGE OUTLINE
(PY OR PV TOPMARK CODE)
5.3 mm BODY WIDTH SSOP .65 mm PITCH

SIZE C | DRAWING No. PSC-4032 | REV 06

Package Outline and Package Dimensions, cont. (20-pin SSOP)

PY/PYG20			
JEDEC VARIATION			NOTE
AE			
MIN	NOM	MAX	
1.73	1.86	1.99	
.05	.13	.21	
1.68	1.73	1.78	
7.07	7.20	7.33	4,5
7.65	7.80	7.90	3
5.20	5.30	5.38	4,6
20			

NOTES:

1 ALL DIMENSIONING AND TOLERANCING CONFORM TO ASME Y14.5M–1994

2 DATUMS -A- AND -B- TO BE DETERMINED AT DATUM PLANE -H-

3 DIMENSION E TO BE DETERMINED AT SEATING PLANE -C-

4 DIMENSIONS D AND E1 ARE TO BE DETERMINED AT DATUM PLANE -H-

5 DIMENSION D DOES NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS. MOLD FLASH, PROTRUSIONS OR GATE BURRS SHALL NOT EXCEED .20 mm PER SIDE

6 DIMENSION E1 DOES NOT INCLUDE INTERLEAD FLASH OR PROTRUSIONS. INTERLEAD FLASH OR PROTRUSIONS SHALL NOT EXCEED .20 mm PER SIDE

7 DETAIL OF PIN 1 IDENTIFIER IS OPTIONAL BUT MUST BE LOCATED WITHIN THE ZONE INDICATED

8 LEAD WIDTH DIMENSION DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION IS .13 mm IN EXCESS OF THE LEAD WIDTH DIMENSION AT MAXIMUM MATERIAL CONDITION. DAMBAR CANNOT BE LOCATED ON THE LOWER RADIUS OR THE FOOT

9 THESE DIMENSIONS APPLY TO THE FLAT SECTION OF THE LEAD BETWEEN .10 AND .25 mm FROM THE LEAD TIP

10 ALL DIMENSIONS ARE IN MILLIMETERS

11 THIS OUTLINE CONFORMS TO JEDEC PUBLICATION 95 REGISTRATION MO–150, VARIATION AB, AC, AE, AG & AH

02	REDRAW TO JEDEC FORMAT	03/15
03	ADD 14 & 16 LD	08/25
04	ADDED TOPMARK TO TITLE	5/23
05	ADD "GREEN" PYG NOMENCLATURE	10/12
06	ADDED PACKAGE CODE	12/12

TOLERANCES UNLESS SPECIFIED
DECIMAL ANGULAR
XX± ±
XXX±
XXXX±

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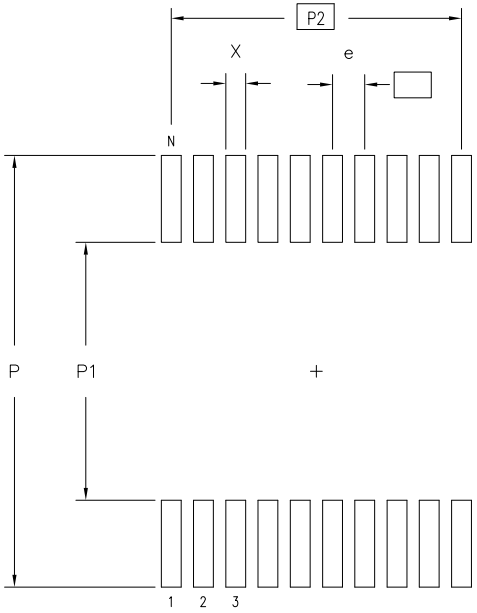
TITLE PY/PYG PACKAGE OUTLINE (PY OR PV TOPMARK COD 5.3 mm BODY WIDTH SSO

SIZE C | DRAWING No. PSC–403

REVISION A 03/18/15

Package Outline and Package Dimensions, cont. (20-pin SSOP)

LAND PATTERN DIMENSIONS



MIN	MAX
8.60	8.80
5.10	5.30
5.85 BSC	
.30	.40
.65 BSC	
20	

REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	04/15/91	T. VU
01	ADD 28 LD	07/27/93	T. VU
02	REDRAW TO JEDEC FORMAT	03/15/95	T. VU
03	ADD 14 & 16 LD	08/25/98	T. VU
04	ADDED TOPMARK TO TITLE	5/23/01	T. VU
05	ADD "GREEN" PYG NOMENCLATURE	10/12/04	TU VU
06	ADDED PACKAGE CODE	12/12/12	RC

TOLERANCES UNLESS SPECIFIED
DECIMAL ANGULAR
XX± ±
XXX±
XXXX±

APPROVALS | DATE
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SAN JOSE CA 95138
PHONE: (408) 284-8200
FAX: (408) 284-8591

TITLE PY/PYG PACKAGE OUTLINE
(PY OR PV TOPMARK CODE)
5.3 mm BODY WIDTH SSOP .65 mm PITCH

SIZE | DRAWING No. | REV

Ordering Information

Part / Order Number	Marking	Shipping Packaging	Package	Temperature
74FCT3807SNDGI	see page 6	Tubes	20-pin VFQFPN	-40° to +105°C
74FCT3807SNDGI8		Tape and Reel	20-pin VFQFPN	-40° to +105°C
74FCT3807SPGGI		Tubes	20-pin TSSOP	-40° to +105°C
74FCT3807SPGGI8		Tape and Reel	20-pin TSSOP	-40° to +105°C
74FCT3807SQGI		Tubes	20-pin QSOP	-40° to +105°C
74FCT3807SQGI8		Tape and Reel	20-pin QSOP	-40° to +105°C
74FCT3807SPYGI		Tubes	20-pin SSOP	-40° to +105°C
74FCT3807SPYGI8		Tape and Reel	20-pin SSOP	-40° to +105°C

“G” after the two-letter package code denotes Pb-Free configuration, RoHS compliant.

Revision History

Rev.	Date	Originator	Description of Change
A	03/18/15	B. Chandhoke	Initial release.

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(Rev.1.0 Mar 2020)

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