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FSA2269 / FSA2269TS — Low-Voltage Dual-SPDT (0.4 Ω) Analog Switch with Negative Swing Audio Capability

Features

- 0.4 Ω Typical On Resistance (R_{ON}) for +3.0 V Supply
- 0.25 Ω Maximum R_{ON} Flatness for +3.0 V Supply
- -3 db Bandwidth: > 50 MHz
- Low-I_{CCT} Current Over an Expanded Control Input Range
- Packaged in 10-Lead MicroPak[™], UMLP, and WLCSP
- Power-Off Protection on Common Ports
- Broad V_{CC} Operating Range: 1.65 to 4.5 V
- Noise Immunity Termination Resistors in FSA2269TS

Applications

- Cell Phone, PDA, Digital Camera, and Notebook
- LCD Monitor, TV, and Set-Top Box

Description

The FSA2269 is a high-performance, dual Single-Pole Double-Throw (SPDT) analog switch with negative swing audio capability. The FSA2269 features ultra-low R_{ON} of 0.4 Ω (typical) at 3.0 V V_{CC}. The FSA2269 operates over a wide V_{CC} range of 1.65 V to 4.5 V, is fabricated with sub-micron CMOS technology to achieve fast switching speeds, and is designed for break-before-make operation. The select input is TTL-level compatible.

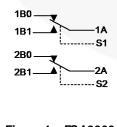
The FSA2269 features very low quiescent current even when the control voltage is lower than the V_{CC} supply. This feature suits mobile handset applications by allowing direct interface with baseband processor general-purpose I/Os with minimal battery consumption.

The FSA2269TS includes termination resistors that improve noise immunity during overshoot excursions, off-isolation coupling, or "pop-minimization."

0		
Part Number	Top Mark	Package Description
FSA2269L10X	HL	10-Lead, MicroPak, JEDEC MO-255, 1.6 x 2.1 mm
FSA2269UMX	HP	10-Lead, Quad Ultrathin Molded Leadless Package (UMLP), 1.4 x 1.8 mm, 0.4 mm Pitch
FSA2269TSL10X	HU	10-Lead, MicroPak, JEDEC MO-255, 1.6 x 2.1 mm
FSA2269TSUMX	HT	10-Lead, Quad Ultrathin Molded Leadless Package(UMLP), 1.4 x 1.8 mm, 0.4 mm Pitch
FSA2269UCX	N9	12-Ball, Wafer-Level Chip Scale Package (WLCSP),1.2 x 1.6 mm, 0.4 mm Pitch

Ordering Information

Analog Symbols





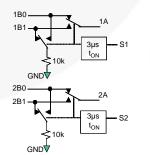


Figure 2. FSA2269TS (with Slow Turn On)

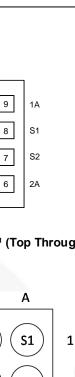


Figure 4. 10-Pin MicroPak[™] (Top Through View)

5

GND

Vcc

10

8

7

6

1

2

3

4

1B0

1B1

2B0

2B1

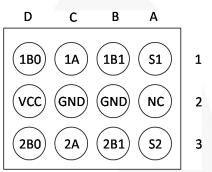


Figure 6. 12-Ball WLCSP (Top Side View)

Pin Configuration

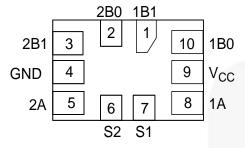


Figure 3. 10-Pin UMLP (Top Through View)

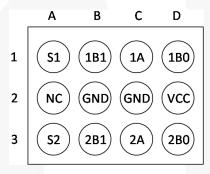


Figure 5. 12-Ball WLCSP (Bump Side View)

Pin # Pin # UMLP WLCSP Name Description Micropak 1 2 B1 1B1 Data Ports 2 3 D3 2B0 Data Ports 4 В3 2B1 Data Ports 3 B2, C2 GND Ground 4 5 5 6 C3 2A Data Ports 6 7 A3 S2 Switch Select Pins 7 S1 8 A1 Switch Select Pins 8 9 C1 1A Data Ports 9 10 D2 Supply Voltage Vcc 10 D1 1B0 Data Ports 1

Truth Table

Pin Descriptions

Control Input, Sn	Function
LOW Logic Level	nB0 connected to nA (FSA2269/2269TS); nB1 terminated to GND (FSA2269TS only)
HIGH Logic Level	nB1 connected to nA (FSA2269/2269TS); nB0 terminated to GND (FSA2269TS only)

FSA2269 / FSA2269TS — Low-Voltage Dual-SPDT (0.4Ω) Analog Switch with Negative Swing Audio Capability

Absolute Maximum Ratings

Stresses exceeding the absolute maximum ratings may damage the device. Functional operation above the recommended operating conditions is not implied. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. Absolute maximum ratings are stress ratings only.

Symbol		Parameter				
Vcc	Supply Voltage				5.5	V
Vsw	Switch I/O Voltage ⁽¹⁾	1B0, 1B1, 2B0, 2B	31, 1A, 2A Pins	V _{CC} -4.6	5.5	V
VCNTRL	Control Input Voltage ⁽¹⁾	S1, S2		-0.5	V _{CC} +0.3	V
I _{SW}	Switch I/O Current (Continu		350	mA		
ISWPEAK	Peak Switch Current	ch Current Pulsed at 1ms Duration, <10% Duty Cycle				mA
T _{STG}	Storage Temperature Rang	-65	+150	°C		
TJ	Maximum Junction Temper	ature			+150	°C
ΤL	Lead Temperature		Soldering, 10 Seconds		+260	°C
MSL	Moisture Sensitivity Level,	JEDEC J-STD-020	A	1		
			I/O to GND		12	
- /	Human Body Model, JEDE	C: JESD22-A114	I/O to GND FSA2269UCX		11	
ESD			Power to GND		8	kV
		All Other Pins		7		
	Charged Device Model, JE	DEC: JESD22-C10	1		2	

Note:

1. Input and output negative ratings may be exceeded if input and output diode current ratings are observed.

Recommended Operating Conditions

The Recommended Operating Conditions table defines the conditions for actual device operation. Recommended operating conditions are specified to ensure optimal performance to the datasheet specifications. Fairchild does not recommend exceeding them or designing to absolute maximum ratings.

Symbol	Parameter	Min.	Max.	Unit
Vcc	Supply Voltage ⁽²⁾	1.65	4.50	V
V _{S1, S2}	Control Input Voltage	0V	Vcc	V
Vsw	Switch I/O Voltage	V _{CC} -4.3	Vcc	V
T _A	Operating Temperature	-40	+85	°C

Note:

2. For 4.5 V operation, SEL frequency (pins S1 & S2) should not exceed 100 Hz and 50 ns edge rate.

Symbol	Parameter	Conditions	V _{cc} (V)	т	_A =+25°	°C	T _A = +8	Unit		
-				Min.	Тур.	Max.	Min.	Max.		
			3.60 to 4.50				1.70			
			3.00 to 3.60				1.50			
VIH	Input Voltage High		2.70 to 3.00				1.35		V	
			2.30 to 2.70				1.30		v	
			1.65 to 1.95				0.90			
			3.60 to 4.50					0.7	V	
V	Input Valte go Low		2.70 to 3.60					0.5		
VIL	Input Voltage Low		2.30 to 2.70					0.4	V	
			1.65 to 1.95					0.4		
l _{iN}	Control Input Leakage (S1, S2)	$V_{IN}=0$ to V_{CC}	1.65 to 4.50				-0.5	0.5	μA	
I _{NO(0FF),} I _{NC(OFF)}	Off Leakage Current of Port nB0 and nB1 (FSA2269 only)	nA=0.5 V, V_{CC} -0.5 V nB0 or nB1= V_{CC} - 0.5 V, 0.5 V, or Floating Figure 8	1.95 to 4.50	-50		50	-250	250	nA	
I _{A(ON)}	On Leakage Current of Port nA	nA=0.5 V, V _{CC} -0.5 V nB0 or nB1=V _{CC} - 0.5 V, 0.5 V, or Floating Figure 9	1.95 to 4.50	-20		20	-150	150	nA	
IOFF	Power-Off Leakage Current (Common Port Only 1 A, 2A) (FSA2269)	Common Port (1A, 2A), $V_{IN}=0$ V to 4.5 V, $V_{CC}=0$ V nB0, nB1=Floating	0					±1	μA	
IOFF	Power-Off Leakage Current (Common Port Only 1 A, 2A) (FSA2269TS)	Common Port (1A, 2A), $V_{IN}=0V$ to 4.5 V, $V_{CC}=0$ V nB0, nB1=0 V or Floating	0					±45	μA	
		l _{ON} =100 mA, nB0 or nB1=0.7 V, 3.6 V, 4.5 V, Figure 7	4.50		0.30					
Derr	Switch On	I _{ON} =100 mA, nB0 or nB1=0.7 V, 3.6 V, Figure 7	3.00		0.40			0.80	0	
R _{on}	Resistanœ ^(3,6)	I _{ON} =100mA, nB0 or nB1=0V, 0.7 V, 1.6 V, 2.3 V, Figure 7	2.30		0.52			F	Ω	
		I _{ON} =100 mA, nB0 or nB1=0V, 0.7 V, 1.65 V, Figure 7	1.65		1.00					
			4.50		0.04			0.13		
	On Resistance	I _{ON} =100 mA, nB0 or	3.00		0.06			0.13	~	
ΔR_{ON}	Matching Between Channels ⁽⁴⁾	nB1=0.7 V	2.30		0.12				Ω	
			1.65		1.00					

Continued on the following page...

DC Electrical Characteristics (Continued)

All typical values are T_A=25°C unless otherwise specified.

Symbol	Parameter	Conditions	V _{cc} (V)	T _A =+25⁰C			T _A =-4 +8	Unit		
				Min.	Тур.	Max.	Min.	Max.		
			4.50					0.25		
Р	On Resistance Flatness ⁽⁵⁾	l _{ou⊤} =100 mA, nB0 or nB1=0V to V _{CC}	3.00					0.25	Ω	
R _{FLAT(ON)}			2.30		0.5					
			1.65		0.6					
R _{TERM}	Internal Termination Resistors ⁽⁶⁾ (FSA2269TS only)				10				kΩ	
lcc	Quiescent Supply Current	V _{IN} =0 or V _{CC} , I _{OUT} =0	4.50	-100	1	100	-500	500	nA	
laar	Increase in I _{CC} per	Input at 2.6 V	4.50		3.0			10.0		
Ісст	Input	Input at 1.8 V	4.50		7.0			15.0	μA	

Notes:

3. On resistance is determined by the voltage drop between A and B pins at the indicated current through the switch.

4. $\Delta R_{ON} = R_{ON max} - R_{ON min}$ measured at identical V_{CC}, temperature, and voltage.

5. Flatness is defined as the difference between the maximum and minimum value of on resistance (R_{ON}) over the specified range of conditions.

6. Guaranteed by characterization, not production tested.

FSA2269 / FSA2269TS — Low-Voltage Dual-SPDT (0.4Ω) Analog Switch with Negative Swing Audio Capability

AC Electrical Characteristics

All typical value are $T_{A}\!=\!25^{\circ}C$ unless otherwise specified.

Cumber 1	Parameter	Conditions	V AA	Т	_A =+25⁰	ос О	T _A =-40 t	to +85°C	Unit	Figure
Symbol			V _{CC} (V)	Min.	Тур.	Max.	Min.	Max.	Unit	Figure
		50	3.60 to 4.50			55	15	60		
	Turn-On Time	nB0 or nB1=1.5 V,	2.70 to 3.60			60	15	65		Figure 10 Figure 11
	FSA2269	R∟=50 Ω,	2.30 to 2.70			100	15	110	ns	
		C∟=35 pF	1.65 to 1.95		70					
		nB0 or	3.60 to 4.50			105	15	110		
	Turn-On Time	nB1=1.5 V,	2.70 to 3.60			115	15	150		Figure 10
t _{ON}	FSA2269UCX	R _L =50 Ω,	2.30 to 2.70			180	15	185	ns	Figure 11
		C∟=35 pF	1.65 to 1.95		110					
	10	nB0 or	3.60 to 4.50			3.5	0.5	4.0		
	Turn-On Time	nB1=1.5 V,	2.70 to 3.60			4.5	0.5	5.0		Figure 10 Figure 11
	FSA2269TS	R _L =50 Ω,	2.30 to 2.70			6.0	0.5	7.0	μs	
		C∟=35 pF	1.65 to 1.95		8.0					
	Turn-Off Time FSA2269	nB0 or	3.60 to 4.50			50	5	55	ns	
		nB0 01 nB1=1.5 V, R _L =50 Ω, C _L =35 pF	2.70 to 3.60			55	5	60		Figure 10
			2.30 to 2.70			60	5	65	115	Figure 11
			1.65 to 1.95		40					
	Turn-Off Time FSA2269UCX	nB0 or nB1=1.5 V, R∟=50 Ω, C∟=35 pF	3.60 to 4.50			100	5	105	- ns	Figure 10 Figure 11
toff			2.70 to 3.60			110	5	115		
UFF			2.30 to 2.70			120	5	125		
			1.65 to 1.95		80					
		nB0 or	3.60 to 4.50			45	5	50	-	Figure 10 Figure 11
	Turn-Off Time	nB1=1.5 V,	2.70 to 3.60			50	5	55		
	FSA2269TS	R∟=50 Ω, C∟=35 pF	2.30 to 2.70			55	5	60	ns	
		CL=35 pF	1.65 to 1.95		50		0			
		nB0 or	3.60 to 4.50		3		1			1
t _{BBM}	Break-Before- Make Time	nB1=1.5 V,	2.70 to 3.60		5		2		ns	Figure 12
L BBIM	FSA2269 ⁽⁷⁾	R∟=50 Ω, C∟=35 pF	2.30 to 2.70		10		2		113	l igure iz
		С _L =35 рі	1.65 to 1.95		5		2			
		nB0 or	3.60 to 4.50		9.5		5.5			
t _{BBM}	Break-Before- Make Time	nB1=1.5 V,	2.70 to 3.60		17.0		15.0		ns	Figure 12
rbbw	FSA2269UCX ⁽⁷⁾	R∟=50 Ω, C∟=35 pF	2.30 to 2.70		22.0		20.0		115	rigule 12
		0L-00 hi	1.65 to 1.95		46.0		41.0			1.2
		nB0 or	3.60 to 4.50		1.5		1.0			
t _{BBM}	Break-Before- Make Time	nB1=1.5 V,	2.70 to 3.60		3.0		1.5		211	Figure 12
•DDIVI	FSA2269TS ⁽⁷⁾	R _L =50 Ω, C _L =35 pF	2.30 to 2.70		4.0		2.5		μS	Figure 12
			1.65 to 1.95		5.0		3.0			

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AC Electrical Characteristics (Continued)

All typical value are $T_A=25^{\circ}C$ unless otherwise specified.

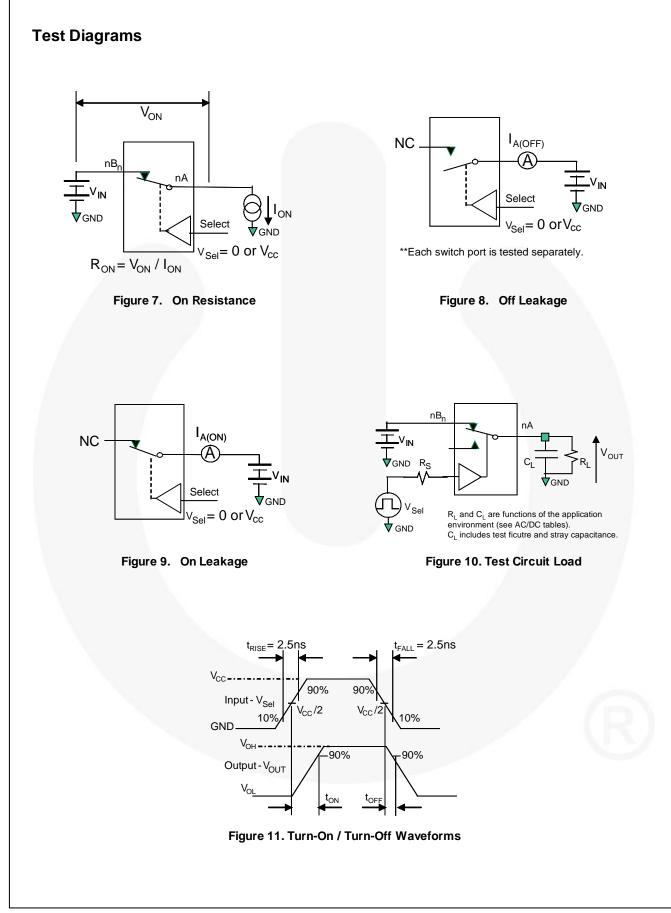
Symbol	Parameter	Conditions	V _{cc} (V)	T _A =+25⁰C			T _A =-40 to +85°C		Unit	Figure
				Min.	Тур.	Max.	Min.	Max.		
Q	Charge Injection	$\begin{array}{l} C_L = 1.0 \text{ nF}, \\ V_S = 0 \text{ V}, \\ R_S = 0 \Omega \end{array}$	1.65 to 4.50		25				рС	Figure 16
OIRR	Off Isolation	f=100 kHz, R _L =50 Ω, C _L =0 pF	1.65 to 4.50		-70				dB	Figure 14
Xtalk	Crosstalk	f=100 kHz, R _L =50 Ω, C _L =0 pF	1.65 to 4.50		-70				dB	Figure 15
BW	-3db Bandwidth	R _L =50 Ω, C _L =0 pF	1.65 to 4.50		>50				MHz	Figure 13
тнр	Total Harmonic Distortion		1.65 to 4.50		.06				%	Figure 19

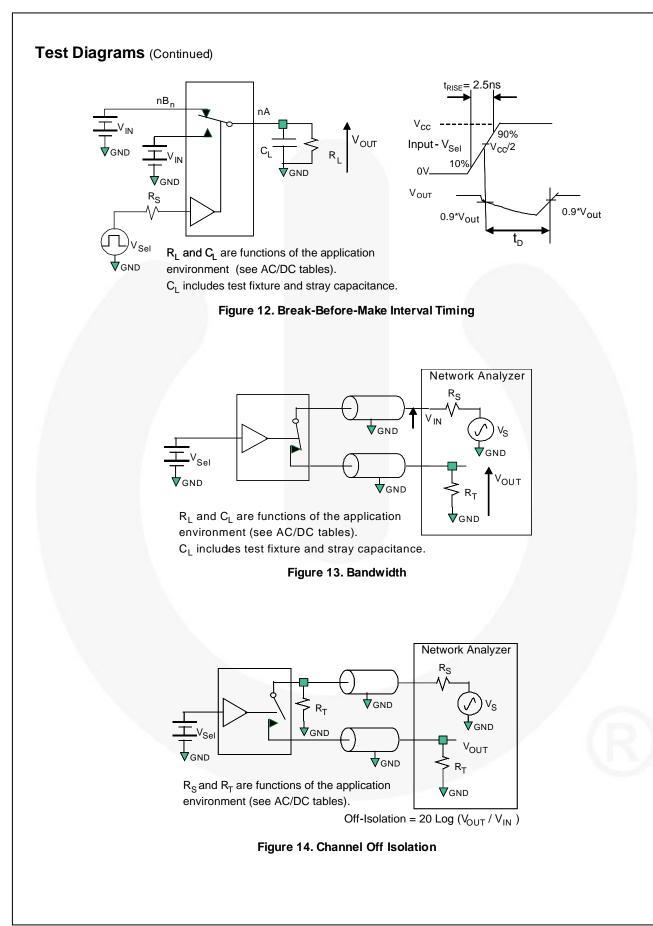
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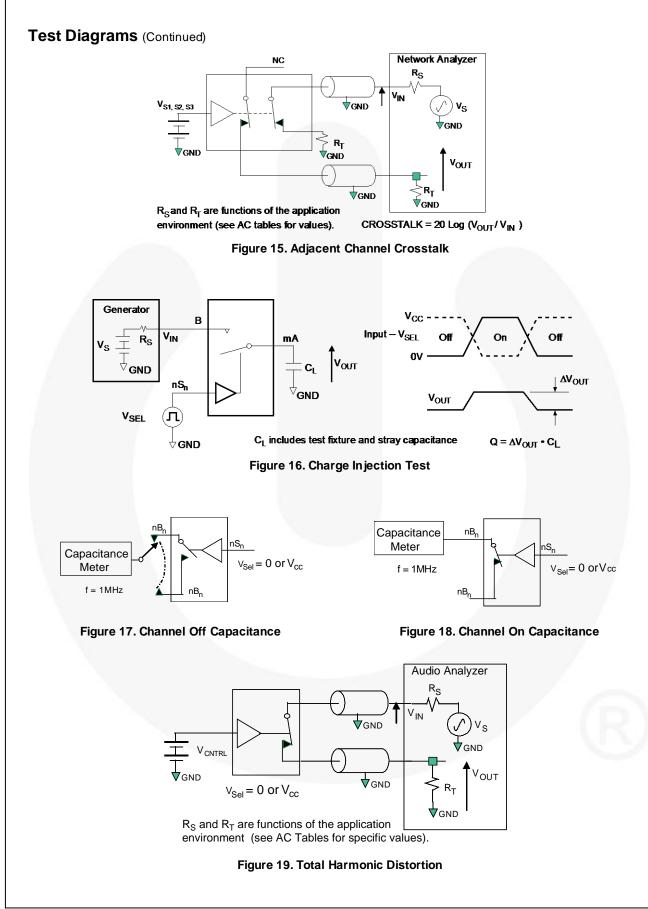
Capacitance

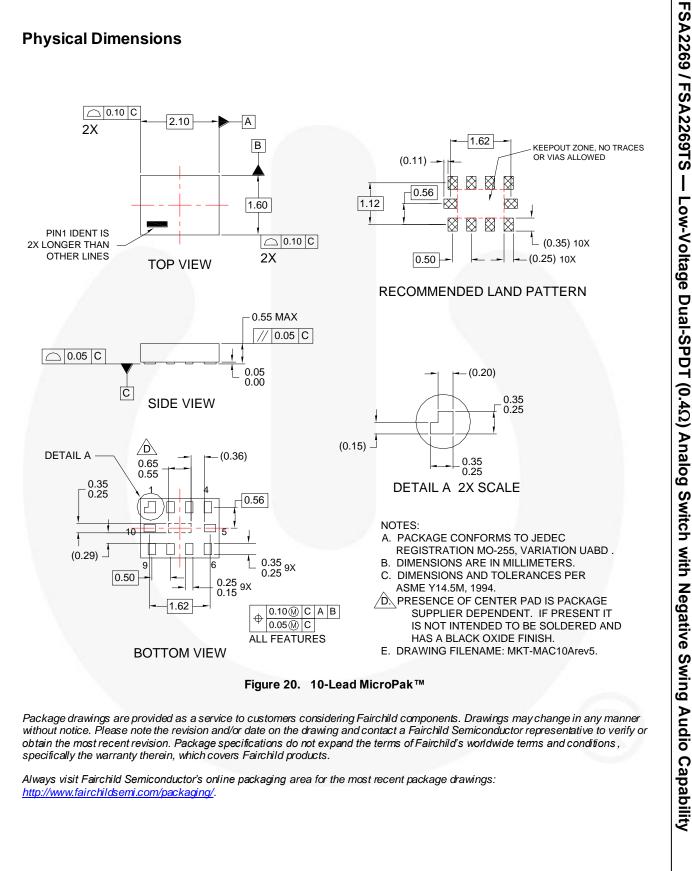
Symbol	Parameter	Conditions	V _{cc} (V)	-	Γ _A =+25°	с	Unit	Figure
	Falameter	Conditions	VCC (V)	Min.	Тур.	Max.	Unit	rigule
C _{IN}	Control Pin Input Capacitance	f=1 MHz	0		2.5	1	pF	Figure 17
COFF	B Port Off Capacitance	f=1 MHz	3.3		30		pF	Figure 17
Con	A Port On Capacitance	f=1 MHz	3.3		120		pF	Figure 18

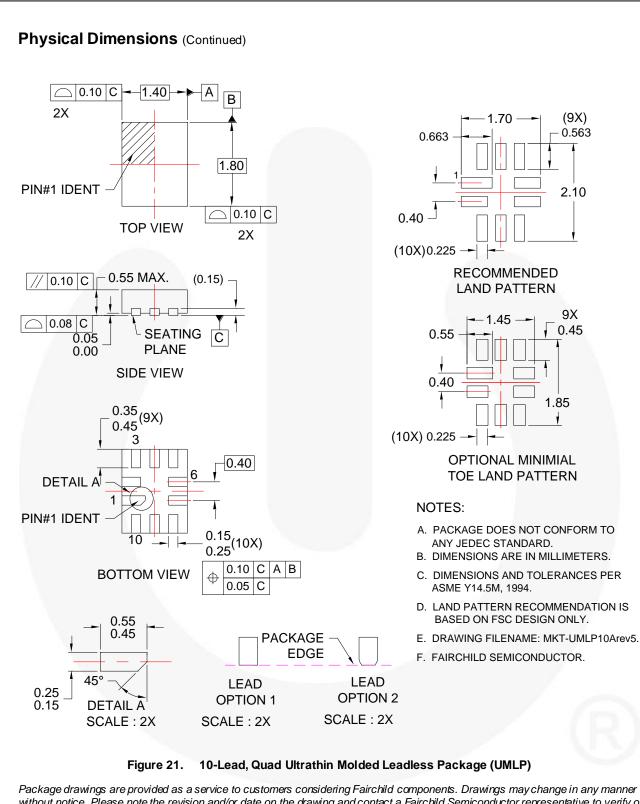




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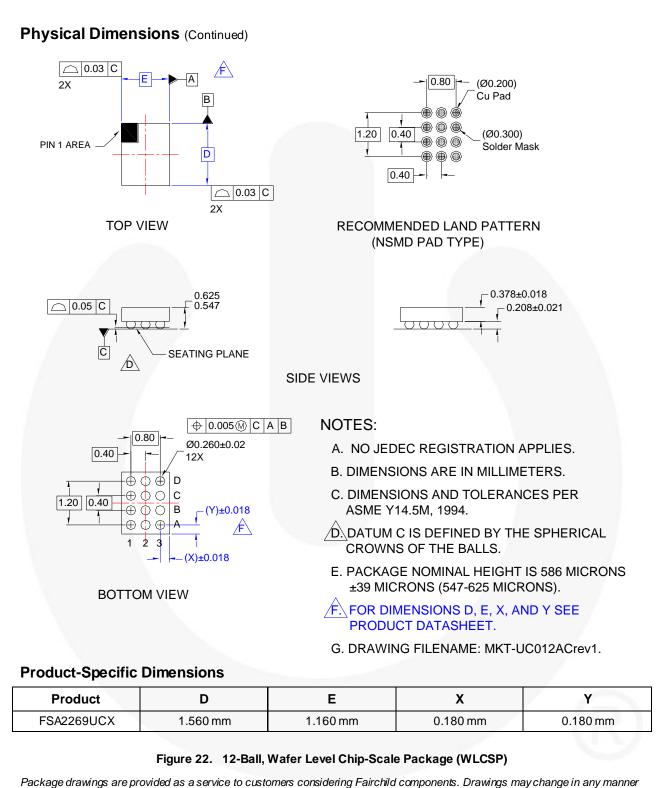




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