FAIRCHILD
SEMICONDUCTOR®

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FSA2866
Dual-Host / Dual-SIM Card Crosspoint Analog Switch

Features

Switch Type	2x2 Crosspoint Switch
Input Type	Data
Input Signal Range	0 to V_{CC}
V_{CC}	1.65V to 4.30V
R_{ON}	Data 2Ω (Typical) VSIM 2Ω (Typical)
R_{FLAT}	0.6Ω (Typical)
ESD	IEC 61000-4-2 System Air 15kV, Contact 8kV
C_{ON}	28pF (Typical)
C_{OFF}	12pF (Typical)
Package	20-Lead UMLP, 3 x 3 x 0.55mm, 0.40mm Pitch with Exposed DAP
Ordering Information	FSA2866UMX

Applications

- MP3 Portable Media Players
- Cellular Phones, Smart Phones

Description

The FSA2866 is a dual-host, dual-SIM card analog switch designed specifically for cell phones that support two specific carrier services (for example, CDMA and GSM/3G).

Related Resources

- *For samples and questions, please contact: Analog.Switch@fairchildsemi.com.*
- *FSA2866 Evaluation Board*
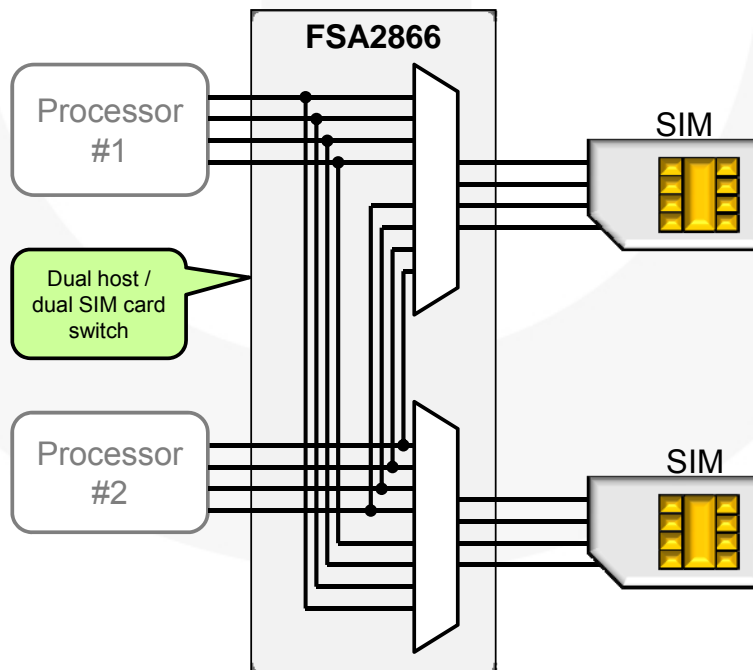
Figure 1.   Typical Mobile Phone Application

Physical Dimensions

TOP VIEW

△ 0.10 C
2X

PIN1
IDENT

△ 0.10 C
2X

SIDE VIEW

// 0.10 C
0.55 MAX
△ 0.08 C
(0.15)
0.05
0.00
SEATING
PLANE

BOTTOM VIEW

1.75
1.65

6   10
5   11   0.25 20X
0.15
1.75
1.65
15
1   20   16
PIN 1
IDENT
0.40   0.45 20X
0.35

⊕ 0.10Ⓜ C A B
0.05Ⓜ C

RECOMMENDED LAND PATTERN

3.00
1.80
3.00   1.80
0.80 20X
0.40   0.20 20X

NOTES:

A. PACKAGE CONFORMS TO JEDEC MO-248 VARIATION UEEE.

B. DIMENSIONS ARE IN MILLIMETERS.

C. DIMENSIONS AND TOLERANCES PER ASME Y14.5M, 1994.

D. LAND PATTERN RECOMMENDATION IS FROM PCB MATRIX CALCULATOR V2009.
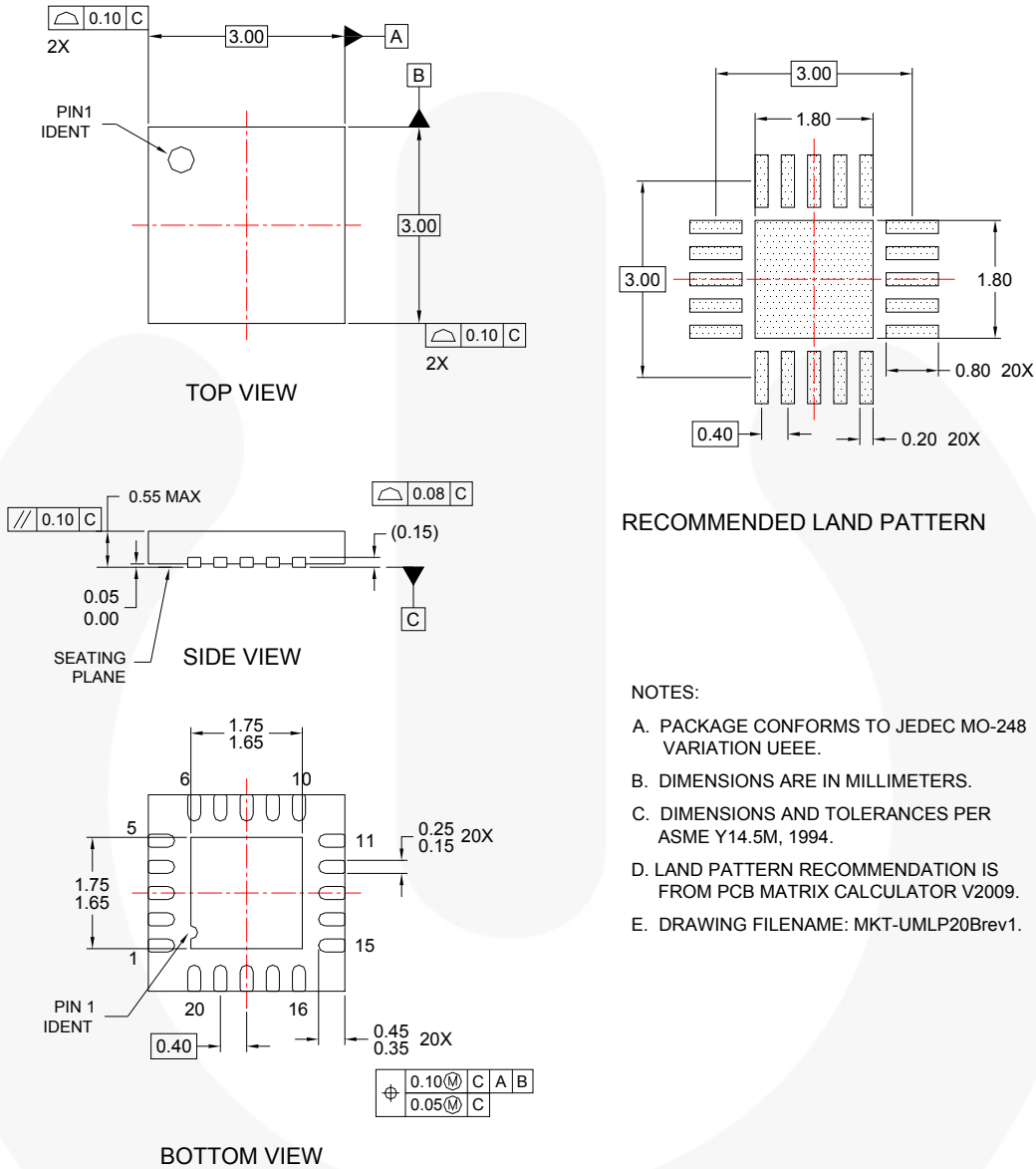
E. DRAWING FILENAME: MKT-UMLP20Brev1.

Figure 9.   20-Pin Ultrathin Molded Leadless Package (UMLP)

Order Number	Operating Temperature Range	Package Description	Packing Method
FSA2866UMX	-40 to 85°C	20-Lead Ultrathin Molded Leadless Package (UMLP)	Tape & Reel

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