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# FSA2466

## DATA / AUDIO Low-Voltage Dual DPDT Analog Switch

### Features

Switch Type	DPDT (2X)
Input Type	Data / Audio Switch
Input Signal Range	0 to $V_{CC}$
$V_{CC}$	1.65 to 4.45 V
$R_{ON}$	2.5 $\Omega$ at 2.7 V
$R_{FLAT}$	0.8 $\Omega$ at 2.7 V
ESD	8 kV HBM
Bandwidth	245 MHz
$C_{ON}$ at 240MHz	16 pF
$C_{OFF}$ at 240MHz	6.0 pF
Features	Low $I_{CCT}$
Package	16- Lead UMLP 1.80 x 2.60 x 0.55 mm, 0.40 mm pitch
Top Mark	KA
Ordering Information	FSA2466UMX

### Description

The FSA2466 is a dual Double-Pole, Double-Throw (DPDT) analog switch. The FSA2466 operates from a single 1.65 V to 4.45 V supply and features an ultra-low on resistance of 2  $\Omega$  at a +2.7 V supply and  $T_A=25^\circ\text{C}$ . This device is fabricated with sub-micron CMOS technology to achieve fast switching speeds and is designed for break-before-make operation.

FSA2466 features very low quiescent current even when the control voltage is lower than the  $V_{CC}$  supply. This allows mobile handset applications direct interface with the baseband processor general-purpose I/Os.

### Related Resources

- For samples and questions, please contact: [Analog.Switch@fairchildsemi.com](mailto:Analog.Switch@fairchildsemi.com).
- FSA2466 Evaluation Board

### Applications

- MP3 Portable Media Players
- Cellular Phones, Smartphones

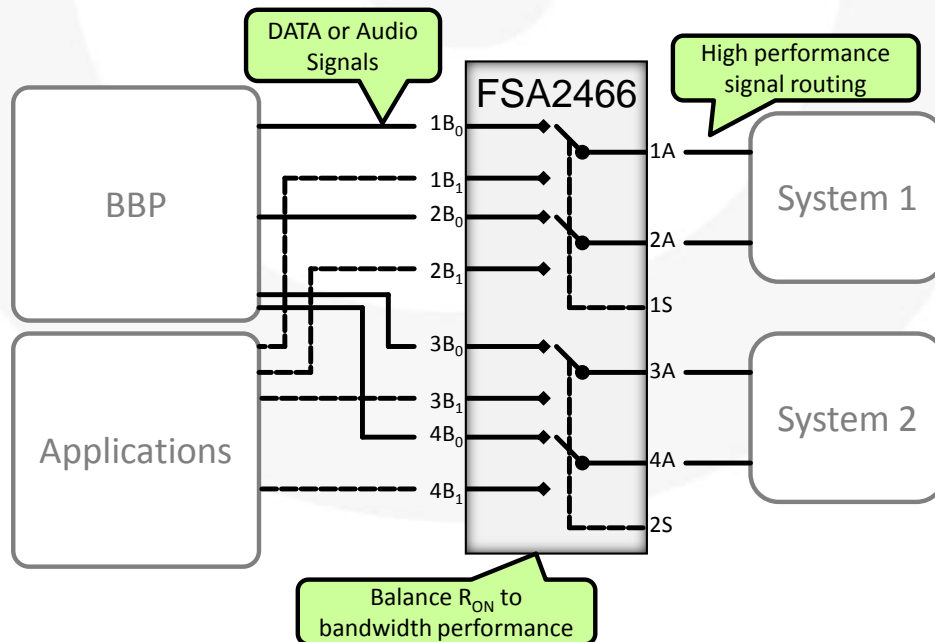


Figure 1. Typical Mobile Phone Application

## Pin Configuration

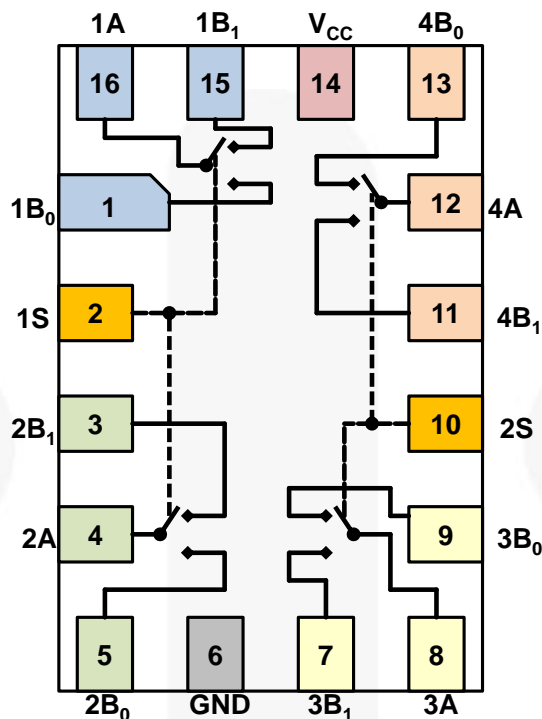


Figure 2. FSA2466UMX (Top View)

## Pin Descriptions

Pin #	Name	Type	Description
1	1B <sub>0</sub>	I/O	Data / Audio Port
2	1S	Input	Control Input for Data & Common Ports 1 & 2
			0 1B <sub>0</sub> = 1A & 2B <sub>0</sub> = 2A
			1 1B <sub>1</sub> = 1A & 2B <sub>1</sub> = 2A
3	2B <sub>1</sub>	I/O	Data / Audio Port
4	2A	I/O	Data / Audio Common Port
5	2B <sub>0</sub>	I/O	Data / Audio Port
6	GND	GND	
7	3B <sub>1</sub>	I/O	Data / Audio Port
8	3A	I/O	Data / Audio Common Port
9	3B <sub>0</sub>	I/O	Data / Audio Port
10	2S	Input	Control Input for Data & Common Ports 3 & 4
			0 3B <sub>0</sub> = 3A & 4B <sub>0</sub> = 4A
			1 3B <sub>1</sub> = 3A & 4B <sub>1</sub> = 4A
11	4B <sub>1</sub>	I/O	Data / Audio Port
12	4A	I/O	Data / Audio Common Port
13	4B <sub>0</sub>	I/O	Data / Audio Port
14	V <sub>CC</sub>	Supply	Voltage supply
15	1B <sub>1</sub>	I/O	Data / Audio Port
16	1A	I/O	Data / Audio Common Port

## Absolute Maximum Ratings

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only.

Symbol	Parameter	Min.	Max.	Unit	
$V_{CC}$	Supply Voltage	-0.50	5.25	V	
$V_S$	Switch Voltage	-0.5	$V_{CC}+0.3$	V	
$V_{IN}$	Input Voltage	-0.5	5.0	V	
$I_{IK}$	Input Diode Current	-50		mA	
$I_{SW}$	Switch Current		350	mA	
$I_{SWPEAK}$	Peak Switch Current (Pulsed at 1ms Duration, <10% Duty Cycle)		500	mA	
$T_{STG}$	Storage Temperature Range	-65	+150	°C	
$T_J$	Junction Temperature		+150	°C	
$T_L$	Lead Temperature, Soldering 10 Seconds		+260	°C	
ESD	Human Body Model, JESD22-A114	I/O to GND		8	kV
		Power to GND		8	
		All Other Pins		8	
	Charge Device Model, JEDEC: JESD22-C101			2	

## 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
$V_{CC}$	Supply Voltage <sup>(1)</sup>	1.65	4.45	V
$V_{IN}$	Control Input Voltage <sup>(2)</sup>	0	$V_{CC}$	V
$V_S$	Switch Input Voltage	0	$V_{CC}$	V
$T_A$	Operating Temperature	-40	+85	°C

### Note:

- For 4.45 V operation, SEL frequency (pins 1S & 2S) should not exceed 100Hz and 100ns edge rate.
- Unused inputs must be held HIGH or LOW. They may not float.

## DC Electrical Characteristics

Typical values are at  $T_A=25^\circ\text{C}$  unless otherwise specified.

Symbol	Parameter	Condition	$V_{CC}$ (V)	$T_A=+25^\circ\text{C}$			$T_A=-40$ to $+85^\circ\text{C}$		Unit
				Min.	Typ.	Max.	Min.	Max.	
$V_{IH}$	Input Voltage High		4.30				1.4		V
			2.70 to 3.60				1.3		
			2.30 to 2.70				1.1		
			1.65 to 1.95				0.9		
$V_{IL}$	Input Voltage Low		4.30					0.7	V
			2.70 to 3.60					0.5	
			2.30 to 2.70					0.4	
			1.65 to 1.95					0.4	
$I_{IN}$	Control Input Leakage	$V_{IN}=0\text{ V to }V_{CC}$	1.65 to 4.30				-0.5	0.5	$\mu\text{A}$
$I_{NO(OFF)}$ $I_{NC(OFF)}$	Off Leakage Current of Port $nB_0$ and $nB_1$	$nA=0.3\text{ V, }V_{CC}=0.3\text{ V}$ $nB_0$ or $nB_1=0.3\text{ V, }V_{CC}=0.3\text{ V}$ or Floating	1.95 to 4.30	-10		10	-50	50	nA
$I_{A(ON)}$	On Leakage Current of Port A	$nA=0.3\text{ V, }V_{CC}=0.3\text{ V}$ $nB_0$ or $nB_1=0.3\text{ V, }V_{CC}=0.3\text{ V}$ or Floating	1.95 to 4.30	-10		10	-50	50	nA
$R_{ON}$	Switch On Resistance <sup>(3)</sup>	$I_{OUT}=100\text{ mA}$	4.30		1.6			2.0	$\Omega$
		$I_{OUT}=100\text{ mA, }nB_0$ or $nB_1=0\text{ V, }0.7\text{ V, }1.2\text{ V, }V_{CC}$	2.70		2.0			2.5	
		$I_{OUT}=100\text{ mA, }nB_0$ or $nB_1=0.7\text{ V}$	2.30		2.2			2.7	
		$I_{OUT}=100\text{ mA, }nB_0$ or $nB_1=0.7\text{ V}$	1.80		4.3			6.0	
$\Delta R_{ON}$	On Resistance Matching Between Channels <sup>(4)</sup>	$I_{OUT}=100\text{ mA, }nB_0$ or $nB_1=0.8\text{ V}$	2.70		0.04			0.20	$\Omega$
		$I_{OUT}=100\text{ mA, }nB_0$ or $nB_1=0.7\text{ V}$	2.30		0.03			0.30	
$R_{FLAT(ON)}$	On Resistance Flatness <sup>(5)</sup>	$I_{OUT}=100\text{ mA, }nB_0$ or $nB_1=0\text{ V} \rightarrow V_{CC}$	2.70		0.60			0.8	$\Omega$
		$I_{OUT}=100\text{ mA, }nB_0$ or $nB_1=0\text{ V} \rightarrow V_{CC}$	2.30		0.75			0.9	
$I_{CC}$	Quiescent Supply Current	$V_{IN}=0\text{ V to }V_{CC, }I_{OUT}=0\text{ V}$	4.30	-100		100	-500	500	nA
$I_{CCT}$	Increase in $I_{CC}$ Current per Control Voltage	$V_{IN}=1.8\text{ V}$	4.30		7	12		15	$\mu\text{A}$
		$V_{IN}=2.6\text{ V}$	4.30		3	6		7	

### Notes:

- On resistance is determined by the voltage drop between the A and B pins at the indicated current through the switch.
- $\Delta R_{ON}=R_{ON\text{ max}} - R_{ON\text{ min}}$  measured at identical  $V_{CC}$ , temperature, and voltage.
- Flatness is defined as the difference between the maximum and minimum value of on resistance over the specified range of conditions.

## AC Electrical Characteristics

Typical values are at  $T_A=25^\circ\text{C}$  unless otherwise specified.

Symbol	Parameter	Condition	$V_{CC}$	$T_A=+25^\circ\text{C}$			$T_A=-40$ to $+85^\circ\text{C}$		Unit	Figure
				Min.	Typ.	Max.	Min.	Max.		
$t_{ON}$	Turn-On Time	$nB_0$ or $nB_1=1.5\text{ V}$ $R_L=50\ \Omega$ , $C_L=35\ \text{pF}$	3.6 to 4.3			50		60	ns	Figure 3
			2.7 to 3.6			65		75		
			2.3 to 2.7			80		90		
$t_{OFF}$	Turn-Off Time	$nB_0$ or $nB_1=1.5\text{ V}$ $R_L=50\ \Omega$ , $C_L=35\ \text{pF}$	3.6 to 4.3			32		40	ns	Figure 3
			2.7 to 3.6			42		50		
			2.3 to 2.7			52		60		
$t_{BBM}$	Break-Before-Make Time <sup>(6)</sup>	$nB_0$ or $nB_1=1.5\text{ V}$ $R_L=50\ \Omega$ , $C_L=35\ \text{pF}$	3.6 to 4.3		15				ns	Figure 4
			2.7 to 3.6		15					
			2.3 to 2.7		15					
Q	Charge Injection	$C_L=100\ \text{pF}$ , $V_{GEN}=0\ \text{V}$ , $R_{GEN}=0\ \Omega$	3.6 to 4.3		8				pC	Figure 6
		$C_L=100\ \text{pF}$ , $V_{GEN}=0\ \text{V}$ , $R_{GEN}=0\ \Omega$	2.7 to 3.6		6					
		$C_L=100\ \text{pF}$ , $V_{GEN}=0\ \text{V}$ , $R_{GEN}=0\ \Omega$	2.3 to 2.7		3					
OIRR	Off Isolation	$f=100\ \text{KHz}$ , $R_L=50\ \Omega$ , $C_L=5\ \text{pF}$	3.6 to 4.3		-90				dB	Figure 5
			2.7 to 3.6		-90					
			2.3 to 2.7		-90					
Xtalk	Crosstalk	$f=100\ \text{KHz}$ , $R_L=50\ \Omega$ , $C_L=5\ \text{pF}$	3.6 to 4.3		-90				dB	Figure 5
			2.7 to 3.6		-90					
			2.3 to 2.7		-90					
BW	-3dB Bandwidth	$R_L=50\ \Omega$	2.3 to 4.3		245			MHZ	Figure 8	
THD	Total Harmonic Distortion	$R_L=32\ \Omega$ , $V_{IN}=2V_{PP}$ , $f=20$ to $20\ \text{KHz}$	3.6 to 4.3		0.21				%	Figure 9
			2.7 to 3.6		0.17					
			2.3 to 2.7		0.26					
		$R_L=600\ \Omega$ , $V_{IN}=2\ V_{PP}$ , $f=20$ to $20\ \text{KHz}$	3.6 to 4.3		0.01					
			2.7 to 3.6		0.008					
			2.3 to 2.7		0.012					

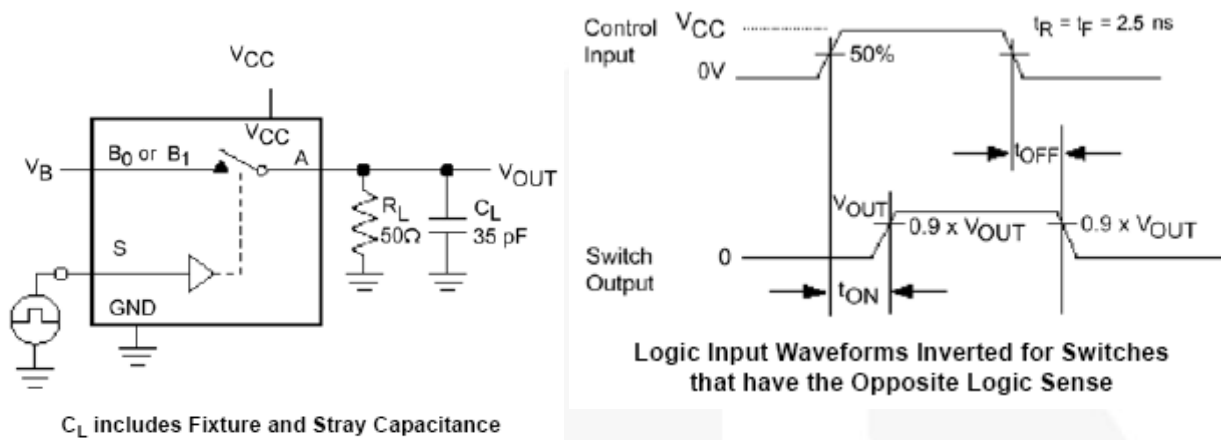
### Note:

6. Guaranteed by characterization, not production tested.

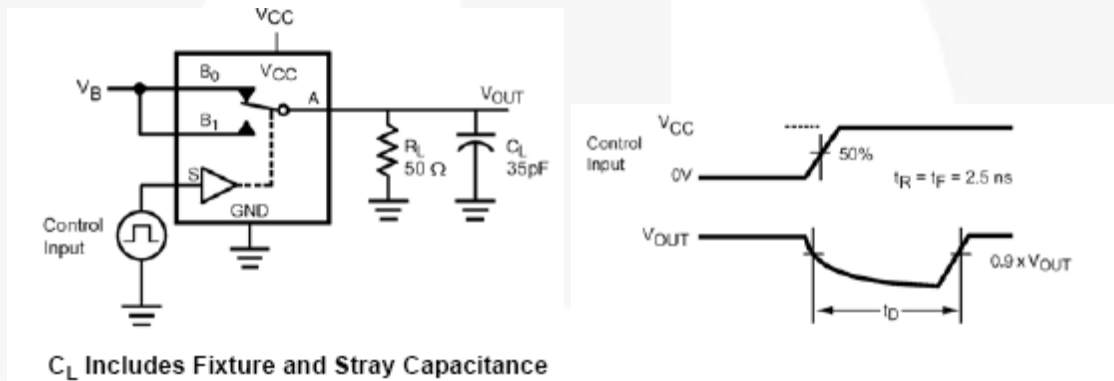
## Capacitance

Symbol	Parameter	Condition	$V_{CC}$	$T_A=+25^\circ\text{C}$ Typical	Unit	Figure
$C_{IN}$	Control Pin Input Capacitance	$f=1\ \text{MHz}$	0	1.3	pF	Figure 3
$C_{OFF}$	B Port Off Capacitance	$f=1\ \text{MHz}$	3.3	6.0	pF	Figure 3
		$f=240\ \text{MHz}$	3.3	6.0		
$C_{ON}$	A Port On Capacitance	$f=1\ \text{MHz}$	3.3	21.0	pF	Figure 3
		$f=240\ \text{MHz}$	3.3	16.0		

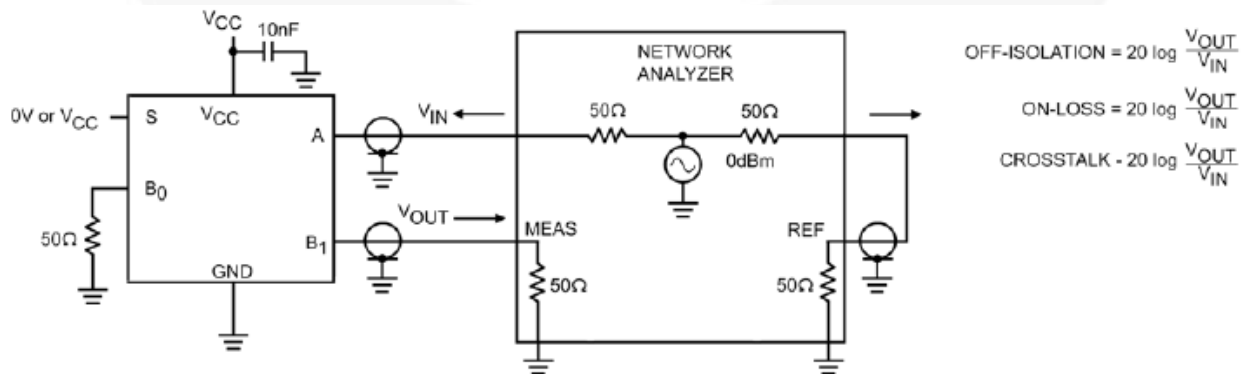
### AC Loadings and Waveforms



**Figure 3. Turn-On / Turn-Off Timing**

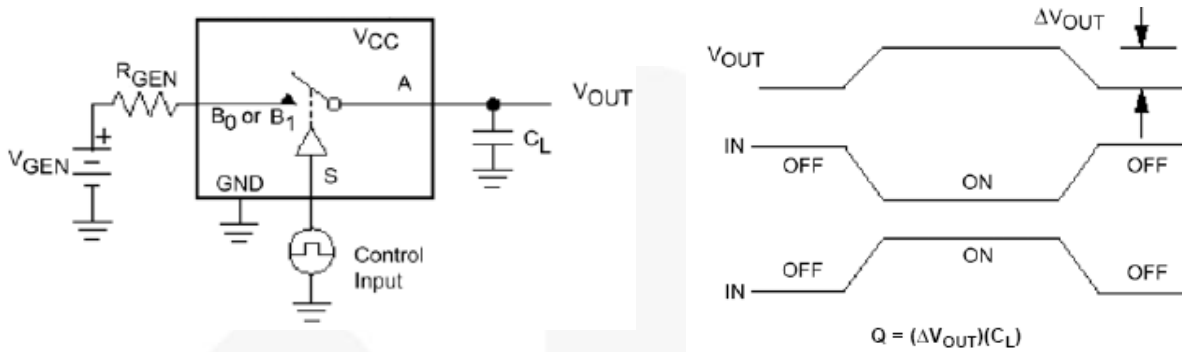


**Figure 4. Break-Before-Make Timing**

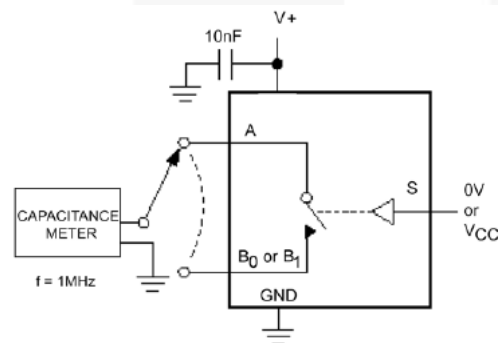


**Figure 5. Off Isolation and Crosstalk**

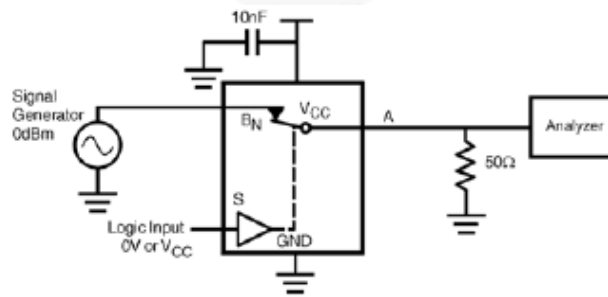
**AC Loadings and Waveforms (Continued)**



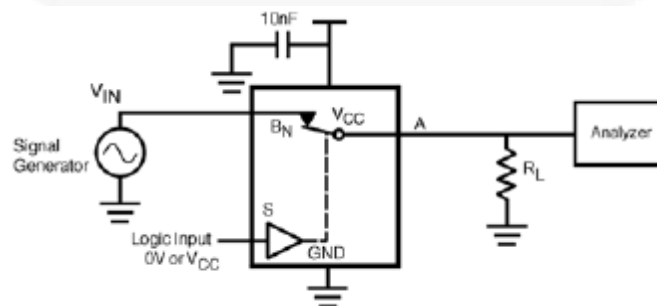
**Figure 6. Charge Injection**



**Figure 7. On / Off Capacitance Measurement Setup**



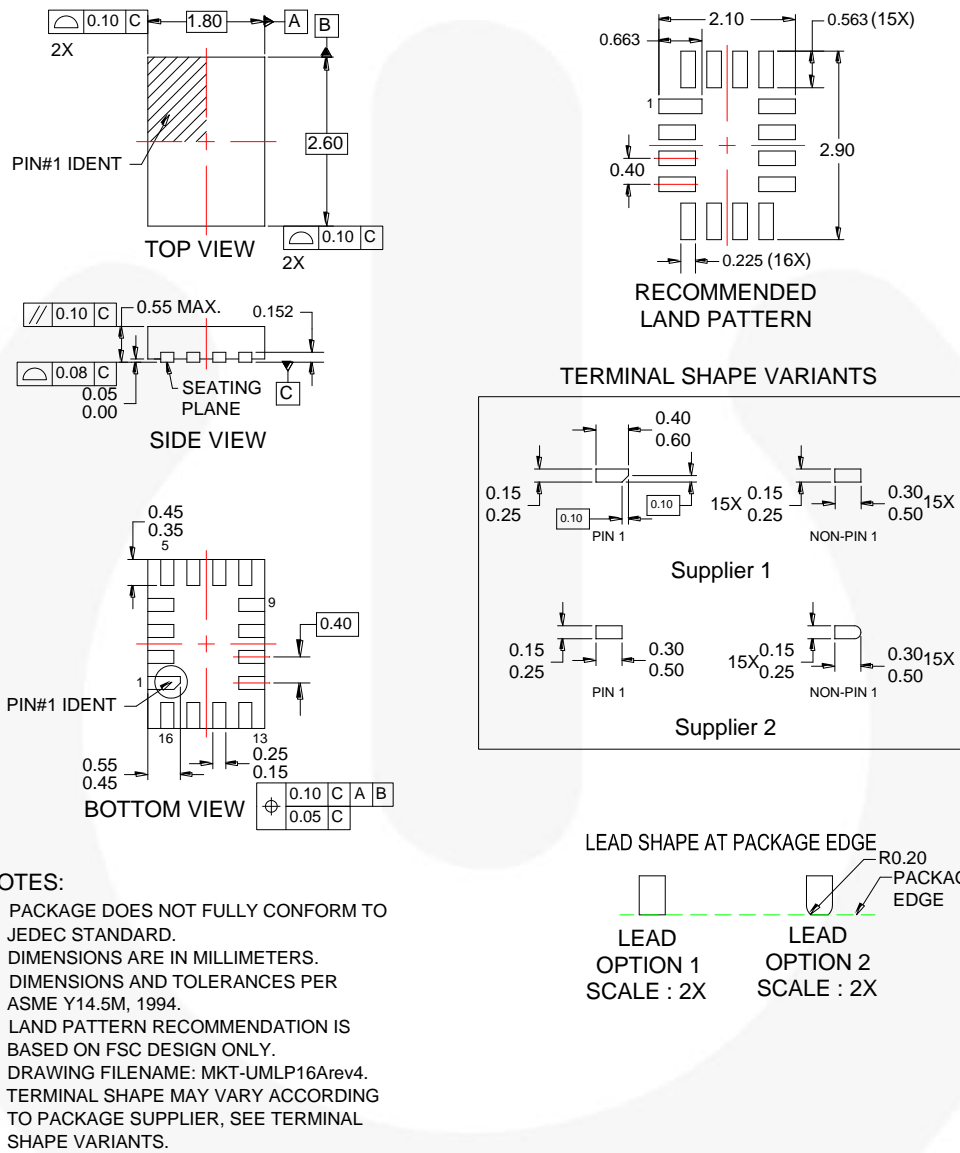
**Figure 8. Bandwidth**



**Figure 9. Harmonic Distortion**



## Physical Dimensions



**Figure 10. 16-Pin Ultrathin Molded Leadless Package (UMLP)**

Order Number	Operating Temperature Range	Package Description	Packing Method
FSA2466UMX	-40 to 85°C	16-Terminal Ultrathin Molded Leadless Package	Tape & Reel

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Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А