

1.本站收集的数据手册和产品资料都来自互联网,版权归原作者所有。如读者和版权方有任 何异议请及时告之,我们将妥善解决。

本站提供的中文数据手册是英文数据手册的中文翻译,其目的是协助用户阅读,该译文无法自动跟随原稿更新,同时也可能存在翻译上的不当。建议读者以英文原稿为参考以便获得更精准的信息。

3.本站提供的产品资料,来自厂商的技术支持或者使用者的心得体会等,其内容可能存在描 叙上的差异,建议读者做出适当判断。

4.如需与我们联系,请发邮件到marketing@iczoom.com,主题请标有"数据手册"字样。

Read Statement

1. The datasheets and other product information on the site are all from network reference or other public materials, and the copyright belongs to the original author and original published source. If readers and copyright owners have any objections, please contact us and we will deal with it in a timely manner.

2. The Chinese datasheets provided on the website is a Chinese translation of the English datasheets. Its purpose is for reader's learning exchange only and do not involve commercial purposes. The translation cannot be automatically updated with the original manuscript, and there may also be improper translations. Readers are advised to use the English manuscript as a reference for more accurate information.

3. All product information provided on the website refer to solutions from manufacturers' technical support or users the contents may have differences in description, and readers are advised to take the original article as the standard.

4. If you have any questions, please contact us at marketing@iczoom.com and mark the subject with "Datasheets".



8 Channel Buffer Device

DEVICE DESCRIPTION

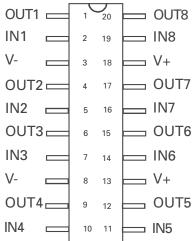
The ZXFBF08 is a low cost, high slew rate, octal buffer amplifier. Built using the Zetex CA700 technology, this buffer has a small signal bandwidth of greater than 100MHz and a 1 volt pk-pk bandwidth of greater than 20 MHz. Each channel draws only 1.9mA. The device operates from a \pm 5 volt supply, which makes it ideal in a majority of applications.

This space saving buffer may be used in a wide variety of applications such as, video switching matrix, multi-channel instrumentation equipment, and A/D input buffer, etc.

FEATURES AND BENEFITS

- 8 Buffers per package
- 100MHz bandwidth
- Low cost
- Low supply current (1.9mA per buffer)
- No thermal runaway
- 20 pin SOIC package

CONNECTION DIAGRAM



APPLICATIONS

- Video Switching Matrix input buffer
- Instrumentation
- Multi-channel A/D input buffer
- Multi-isolation buffer

PART NUMBER	PACKAGE	PART MARK
ZXFBF08W20	SOIC20W	ZXFBF08

ORDERING INFORMATION

PART NUMBER	CONTAINER	INCREMENT
ZXFBF08W20TC	Reel 13"	1000

RELATED PRODUCTS

- ZXFBF04 4 Channel Buffer
- ZXFBF05 4 Channel Buffer with high capacitance drive
- ZXFBF25 4 Channel Buffer with output enable



ABSOLUTE MAXIMUM RATINGS

20V (relative to V-)	
0 to 70°C (de-rated for -40 to 85°C)	
-55 to 125°C	

ELECTRICAL CHARACTERISTICS

Test Conditions: Temperature =25°C, V+ = 5.00, V- = -5.00V, R_L = 1k Ω , C_L = 10pF

Parameter	Conditions	Min.	Typical	Max.	Units
Offset Voltage	$V_{in} = 0V$	-15	-	15	mV
Offset Voltage Drift	V _{in} = 0V		20		V/°C
Supply Current	All inputs = 0V		15	25	mA
Input Bias Current	V _{in} = 0V	0.1	0.5	2.0	μΑ
Output Voltage	$R_{L} = 1k\Omega$ $R_{L} = 10k\Omega$		±1 ±4		V
DC Gain	$V_{in} = \pm 0.5 V, R_L = 1 k\Omega$ $V_{offset} = 0.0 V$	0.95	0.98	1.00	V/V
DC Gain	$\begin{array}{c} V_{in}=\pm0.5V,R_L=1k\Omega\\ V_{offset}=0.25V \end{array}$	0.95	0.99	1.00	V/V
Sink Current	V _{in} = 0V, V _{out} =0.5V	1.0	2.2	5.0	mA
Source Current	V _{in} = 0V, V _{out} =-0.5V	6.0	9.0	12.0	mA
Input Resistance		10	20	100	MΩ
Output Resistance		5	10	15	Ω
Bandwidth	20mVp-p, 1.0Vp-p		100 20		MHz
Slew Rate			40		V/µs
Voltage Noise	10 – 100 kHz		15		nV/√Hz
Differential Gain NTSC	F = 3.58MHz, V _{in} = 0.286Vp-p,		0.1		%
Differential Phase NTSC	DC $\Delta V_{in} = 0$ to 0.714V		0.15		Degrees
Differential Gain PAL	F = 4.43MHz, V _{in} = 0.286Vp-p,		0.1		%
Differential Phase PAL	DC $\Delta V_{in} = 0$ to 0.714V		0.15		Degrees
Channel Isolation	$V_{in} = 370 \text{mVp-p}, \text{RL} = 1 \text{k}\Omega$ F = 4 MHz		-60		dB

NOTES

Test circuit for measuring channel isolation.

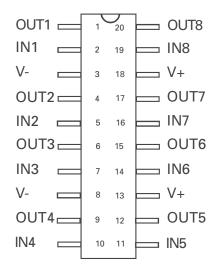
Channel Isolation = $20 \times LOG_{10} (V_{out} / V_{in}) dB$

 $V_{in}=370 \text{mV pk-pk},$ F = 4 MHz $RL = 1 k\Omega$



ISSUE 2 - OCTOBER 2000

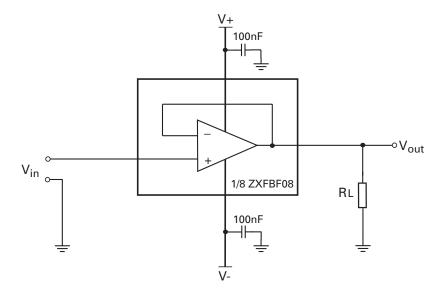
PIN DESCRIPTION



OUT 1,2,3,4,5,6,7,8	Buffer outputs.
IN 1,2,3,4,5,6,7,8	Buffer Inputs.
V+	Positive supply pin, +5 volts.
V-	Negative supply pin, -5

APPLICATION CIRCUIT

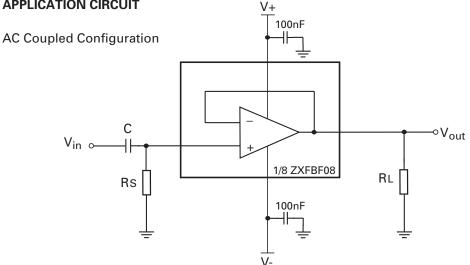
DC Coupled Configuration





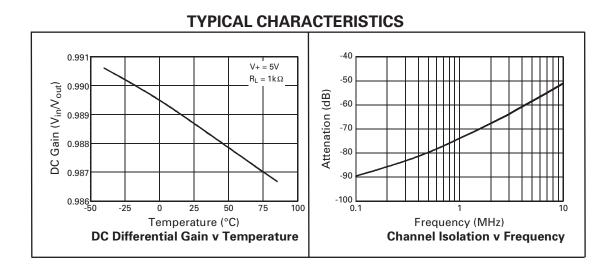
ISSUE 2 - OCTOBER 2000

APPLICATION CIRCUIT



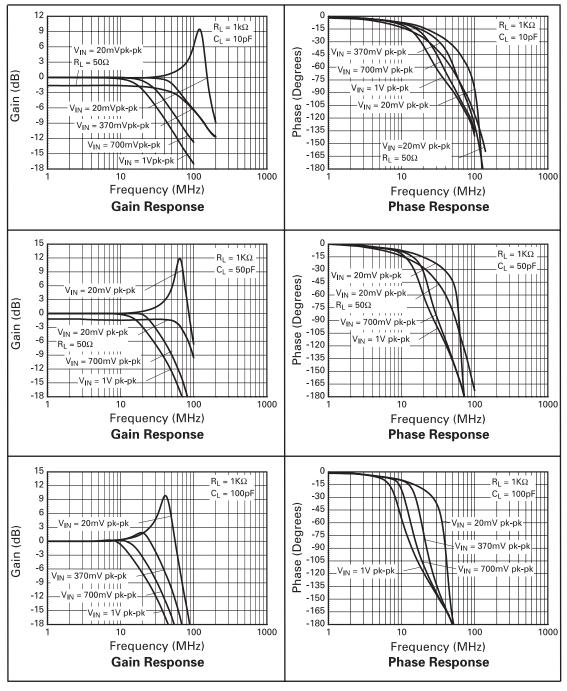
NOTE.

Rs: Source Resistor, provides DC bias for buffer input. Rs \leqslant 10k Ω Both 100nF decoupling capacitors should be situated close to device supply pins.





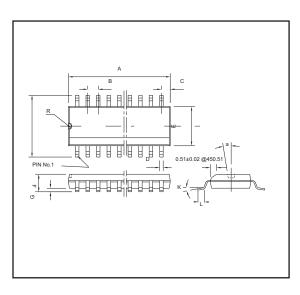
TYPICAL CHARACTERISTICS



Test Conditions:V+=5V, Temperature=25°C.



PACKAGING INFORMATION



DIM	Millimetres		Inches	
	Min	Max	Min	Max
А	12.65	12.85	0.498	0.506
В	1.27	-	0.05	-
С	0.66	-	0.026	-
D	0.36	0.46	0.014	0.018
E	7.40	7.60	0.291	0.299
F	2.44	2.64	0.096	0.104
G	0.10	0.30	0.004	0.012
н	0°	7°	0°	7°
I	0.23	0.28	0.009	0.011
J	10.11	10.51	0.398	0.414
К	0°	8°	0°	8°
L	0.51	1.01	0.02	0.04
R	0.63	0.89	0.025	0.035
а	7°BSC		7°BSC	

SOIC 20 Lead



ZETTER Zetex plc. Fields New Road, Chadderton, Oldham, OL9-8NP, United Kingdom. Telephone: (44)161 622 4422 (Sales), (44)161 622 4444 (General Enquiries) Fax: (44)161 622 4420

Zetex GmbH	Zetex Inc.	Zetex (Asia) Ltd.	These are supported by
Streitfeldstraße 19	47 Mall Drive, Unit 4	3701-04 Metroplaza, Tower 1	agents and distributors in
D-81673 München	Commack NY 11725	Hing Fong Road,	major countries world-wide
Germany Telefon: (49) 89 45 49 49 0 Fax: (49) 89 45 49 49 49	USA Telephone: (631) 543-7100 Fax: (631) 864-7630	Kwai Fong, Hong Kong Telephone:(852) 26100 611 Fax: (852) 24250 494	© Zetex plc 2000 Internet:http://www.zetex.com

This publication is issued to provide outline information only which (unless agreed by the Company in writing) may not be used, applied or reproduced for any purpose or form part of any order or contract or be regarded as a representation relating to the products or services concerned. The Company reserves the right to alter without notice the specification, design, price or conditions of supply of any product or service.