# Crystal Unit

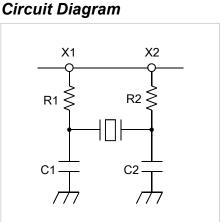
Product	TFX-03
Model number	ST-RIVER-2012-5PF-80K
Nominal frequency	32.768 kHz
Overtone order [Cut]	Fundamental [X-cut]
Load capacitance	5 pF
Equivalent series resistance	80 kΩ Max.
Frequency tolerance	±20 ppm (@25°C)

# IC

Manufacturer	STMicroelectronics
Model	STM32F303××

# **Recommended Condition for Stable Oscillation**

Negative resistance	240 kΩ Min.
Drive level	0.5 μW Max.



## **Evaluation Result**

R1	R2	C1	C2	Negative resistance	Drive level	Frequency deviation
[Ω]	[Ω]	[pF]	[pF]	[kΩ]	[µW]	[ppm]
0	0	2	3	910 Min.	0.1 Max.	

\* Ambient temperature: +25°C / Supply voltage: USB



http://www.river-ele.co.jp/

〒407-8502山梨県韮崎市富士見ヶ丘2丁目1番11号 TEL(0551)22-1211(代) FAX(0551)22-6645

#### 東京営業所 大阪営業所

River Electronics(Singapore)Pte.Ltd TEL:+65-6258-7874 Taiwan River Co.,Ltd. Xi'an River Electronics Corporation Shenzhen Liaison Office

### TEL(03)3377-5444(代) TEL(06)6998-4888(代)

FAX(03)3374-2865 FAX(06)6998-4899 FAX:+65-6258-7366

TEL:+886-2-8988-2811 FAX:+886-2-2983-4785

TEL:+86-755-86528590 FAX:+86-755-86528590