



Hong Kong X'tals Ltd

The Best Companion for Set-top Box Solutions



Crystal tolerance are precisely matched for common STB solutions
High precision for WiFi and Bluetooth interface
Low cost for SoC and processors

Series	Dimension	Frequency Range	Frequency Tolerance	Frequency Stability	Operating Temperature	Features
 CQ	2.0 x 1.6 mm	16MHz ~ 72MHz	±10 ~ 30 ppm	±10 ~ 30 ppm	-20 ~ +70°C	Extremely small form factor for compact design
 CK	2.5 x 2.0 mm	16MHz ~ 80MHz	±10 ~ 30 ppm	±10 ~ 30 ppm	-20 ~ +70°C	Small footprint for most advance STB applications
 C7	3.2 x 2.5 mm	8MHz ~ 150MHz	±10 ~ 30 ppm	±10 ~ 30 ppm	-20 ~ +70°C	Best balance of cost performance in common package size
 M8	3.2 x 1.5 mm	32.768KHz	±20 ppm	-0.04ppm/°C ²	-20 ~ +70°C	Low frequency standby clock in small footprint
 2T	Φ2 x 6 mm	32.768KHz	±20 ppm	-0.04ppm/°C ²	-20 ~ +70°C	Most cost effective in famous industry standard package

Other packages and precisions are available upon requests



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ISO/TS 16949:2009
Certificate IATF 0167724
Certificate SGS HK04/01017 01



ISO 14001:2004
Certificate HK 11/00058



UKAS
Quality Management System
Certificate HK 10/00316



ISO 9001:2008
Certificate HK 10/00316



UKAS
Manufacturing
Certificate CN 12/03611

Unit C, 24/F., Shield Industrial Centre, 84-92 Chai Wan Kok Street, Tsuen Wan, N.T. Hong Kong.
 Tel: +852-3511 2388 Fax: +852-3511 2420 Email: stbcystals@hongkongcrystal.com

www.hongkongcrystal.com



High Precision Crystals for STB Applications



Functional Blocks	IC Manufacturer	IC Number	Crystal Frequency	Load Capacitance (pF)	Crystal Series	Dimension	Ordering Code
Digital Terrestrial Tuner	Silicon Labs	Si2124	24 MHz	10	CQ	 2 x 1.6 mm	2016M2400BJ8E
Satellite Tuner	MaxLinear	MxL582C	24 MHz	18	CA	 5 x 3.2 mm	5032M2400BA8J
		MxL542C		18	CA	 5 x 3.2 mm	5032M2400BA8J
Ethernet	Qualcomm Atheros	AR8035	25 MHz	8	C7	 3.2 x 2.5 mm	3225M2500AV8C
	ASIX	AX88772C		9	C7	 3.2 x 2.5 mm	3225M2500BK8D
WiFi	Broadcom	BCM43235	20 MHz	9	CK	 2.5 x 2.0 mm	2520M2000AB8D
		BCM4360	40 MHz	12	CA	 5 x 3.2 mm	5032M2000AB8F
				12	CK	 2.5 x 2.0 mm	2520M4000AB8F
Power Line Networking	Qualcomm Atheros	AR7420	25 MHz	9	C7	 3.2 x 2.5 mm	3225M2500AV8D
xDSL	Broadcom	BCM63168	20 MHz	16	CA	 5 x 3.2 mm	5032M2000AB8H
		B50612	25 MHz	9	C7	 3.2 x 2.5 mm	3225M2500AB8D
USB	Cypress	CY7C65632	12 MHz	8	C7	 3.2 x 2.5 mm	3225M1200AW8C
		CY7C65634					
Bluetooth	Qualcomm CSR	CSR8510	26 MHz	6	C7	 3.2 x 2.5 mm	3225M2600AH8A
				9	C7	 3.2 x 2.5 mm	3225M2600AH8D
Main Processor	ST Microelectronics	STM32F series	8 MHz	10	CE	 5 x 3.2 mm	5032M0800AK8E
			32.768 KHz	12.5	M8	 3.2 x 1.5 mm	3215K3276AK8N
SoC / Media Processor	ST Microelectronics	STiH4 series	30 MHz	7	C7	 3.2 x 2.5 mm	3225M3000AK8B
			32.768 KHz	12.5	M8	 3.2 x 1.5 mm	3215K3276AK8N
	Broadcom	BCM7444	54 MHz	10	CE	 5 x 3.2 mm	5032M5400AB8E
		BCM7335					

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Certificate SGS 1904/01017.01



ISO 14001:2004
Certificate HK 11/03039



ISO 9001:2008
Certificate HK 10/03116



OHSAS 18001:2007
Certificate CN 12/03611

Distributor / Sales Representative

Unit C, 24/F., Shield Industrial Centre, 84-92 Chai Wan Kok Street, Tsuen Wan, N.T. Hong Kong.
Tel: +852-3511 2388 Fax: +852-3511 2420 Email: stbcystals@hongkongcrystal.com

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