

MODEL 445

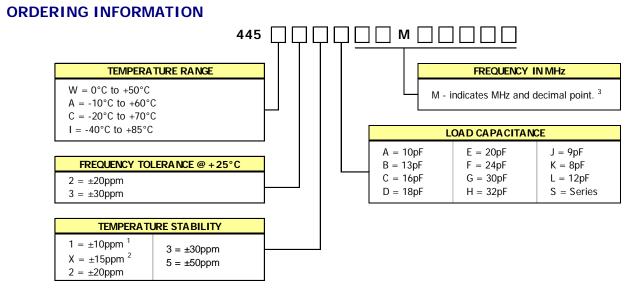
SURFACE MOUNT QUARTZ CRYSTAL

FEATURES

- Standard 5.0mm x 3.2mm Glass Seal Package
- Fundamental Crystal Design
- Frequency Range 8 50MHz
- Frequency Tolerance, ±20ppm Standard [other tolerances available]
- Frequency Stability, ±30ppm Standard [other stabilities available]
- Operating Temperature to -40°C to +85°C
- Tape & Reel Packaging Standard, EIA-481
- RoHS Compliant in Accordance with EU Directive 2011/65/EU
 Lead-Free Termination Finish
 - Exemption 7(c)-I, Electrical and electronic components containing lead [Pb] in glass

APPLICATIONS

Model 445 is a low cost device used in a wide range of commercial applications including notebooks, computer peripherals, audio visual, Bluetooth and USB interfaces, PDAs, and automotive electronics.

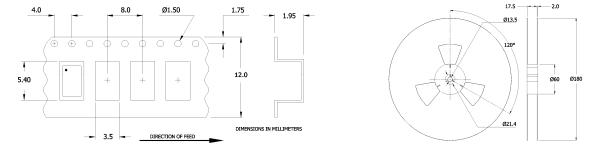


- 1. Only available with temperature range codes "W" and "A".
- 2. Only available with temperature range codes "W", "A" and "C".
- 3. Frequency is recorded with two leading digits before the 'M' and 5 significant digits after the 'M' [including zeros].

Not all performance combinations and frequencies may be available. Contact your local CTS Representative or CTS Customer Service for availability.

PACKAGING INFORMATION [For Reference]

Factory may package reels in quantities of 1k pcs. or 3k pcs. Reel size is 180mm.



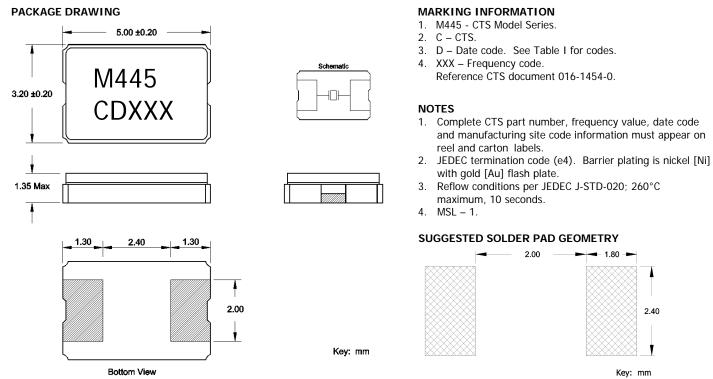
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ELECTRICAL CHARACTERISTICS

	PARAMETER	VALUE					
	Frequency Range	8MHz to 50MHz					
	Operating Mode	Fundamental					
	Crystal Cut	AT-Cut					
	Frequency Tolerance @ +25°C	±20ppm, ±30ppm					
RS	Frequency Stability Tolerance	±10ppm, ±15ppm,					
ELECTRICAL PARAMETERS	[Operating Temperature Range, Referenced to 25°C Reading]	± 20 ppm, ± 30 ppm, ± 50 ppm					
	Operating Temperature Ranges	0°C to +50°C	-10°C to +60°C				
	Operating remperature Kanges	-20°C to +70°C	-40°C to +85°C				
		8MHz - <12MHz	100 Ohms				
	Equivalent Series Resistance [Maximum]	12MHz - <16MHz	50 Ohms				
		16MHz - <30MHz	40 Ohms				
		30MHz - <50MHz	30 Ohms				
	Load Capacitance or Resonance Mode	See Ordering Information					
	Shunt Capacitance [C ₀]	5.0pF Typical, 7.0pF Maximum					
	Drive Level	10μW Min., 100μW Typ., 300μW Max.					
	Aging @ +25°C	±3ppm/yr Typical					
	Storage Temperature Range	-40°C to +85°C					

MECHANICAL SPECIFICATIONS



Bottom View

TABLE I – DATE CODE

	MONTH					FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC
	YEAR															
2001	2005	2009	2013	2017	Α	В	С	D	E	F	G	Н	J	К	L	М
2002	2006	2010	2014	2018	Ν	Р	Q	R	S	Т	U	V	W	Х	Y	Z
2003	2007	2011	2015	2019	а	b	С	d	е	f	g	h	j	k	I	m
2004	2008	2012	2016	2020	n	р	q	r	S	t	u	V	W	х	у	Z

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