

MODEL HS324



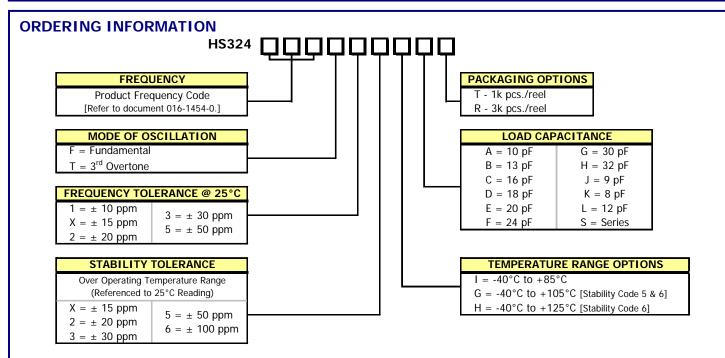
CRYSTAL - INDUSTRIAL ELECTRONICS

FEATURES

- Standard 3.2mm x 2.5mm Seam Weld Package
- Fundamental Design
- Frequency Range 12 40 MHz Fundamental, 36 120 MHz 3rd Overtone
- Frequency Tolerance; ±10 ppm, ±15 ppm, ±20 ppm, ±30 ppm and ± 50 ppm
- Frequency Stability, reference Ordering Information
- Operating Temperature, -40°C to +105°C standard
- Tape & Reel Packaging Standard, EIA-481

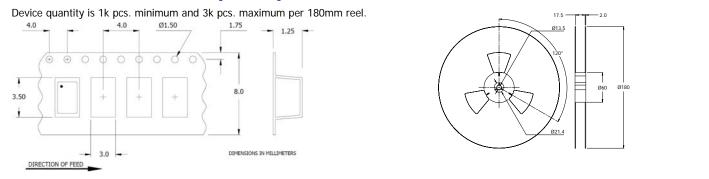
APPLICATIONS

Model HS324 is a low cost crystal developed for use in industrial applications requiring extended temperature ranges.



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

PACKAGING INFORMATION [Reference]



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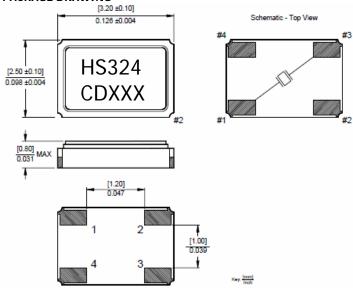
ELECTRICAL CHARACTERISTICS

	PARAMETER		VALUE							
	Operating Mode	Fundame	ntal	3 rd Overtone						
	Frequency Range	12.0 MHz to 4	0.0 MHz	36.0 MHz to 120.0 MHz						
	Crystal Cut	AT-Cut								
	Frequency Tolerance @ 25°C	±10ppm, ±15ppm, ±20ppm, ±30ppm, ±50ppm								
	Frequency Stability Tolerance ¹	±15 ppm, ±20 ppm, ±30 ppm,								
c	[Operating Temperature Range, Referenced to 25°C Reading]	±50 ppm, ±100 ppm								
ELEUI KIUAL PAKAMETEKS	Operating Temperature Range ¹	-40°C to +85°C [All Stability Codes] -40°C to +105°C [Stability Code 3, 5, 6] -40°C to +125°C [Stability Code 5, 6]								
	Equivalent Series Resistance	12.000 MHz - 15.999 MHz 16.000 MHz - 18.999 MHz 19.000 MHz - 29.999 MHz 30.000 MHz - 40.000 MHz	100 Ohms maximum 80 Ohms maximum 60 Ohms maximum 40 Ohms maximum	36.000 MHz - 53.999 MHz 54.000 MHz - 120.000 MHz	150 Ohms maximum 100 Ohms maximum					
ELEC	Load Capacitance or Resonance Mode [See Ordering Information for More Options]	10pF, 12pF, 16pF, Series standard								
	Shunt Capacitance (C ₀)	3.0 pF typical, 5.0 pF maximum								
	Drive Level	10 μW typical, 100 μW maximum								
	Aging @ +25°C	±5 ppm/yr maximum								
	Insulation Resistance [@ DC 100V]	500M Ohms minimum								
	Storage Temperature Range	-40°C to +125°C								
	Reflow Condition, per JEDEC J-STD-020	+260°C maximum, 10 Seconds maximum								

1 See Ordering Information.

MECHANICAL SPECIFICATIONS

PACKAGE DRAWING



MARKING INFORMATION

- 1. HS324 CTS Model Series.
- 2. C CTS.
- 3. D Date code. See Table I for codes.
- XXX Frequency code.
- [Reference CTS document 016-1450-0, Frequency Code Tables.]

NOTES

- 1. Complete CTS part number, frequency value, date code and manufacturing site code information must appear on reel and carton labels.
- 2. Termination pads (e4); barrier plating is nickel [Ni] with gold [Au] flash plate.
- Reflow conditions per JEDEC J-STD-020; 260°C maximum, 10 seconds.

SUGGESTED SOLDER PAD GEOMETRY

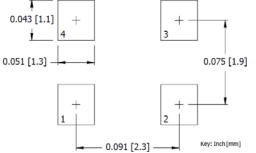


TABLE I – DATE CODE

	YEAR		MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC
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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