

Helping Customers Innovate, Improve & Grow



PX-422

Features

- Sealed Ceramic Leadless Chip Carrier
- Lowest Profile
- Frequency Range: 10 KHZ to 60 MHZ
- Previous Model: CO-408, CO-448

Applications

Performance Specifications

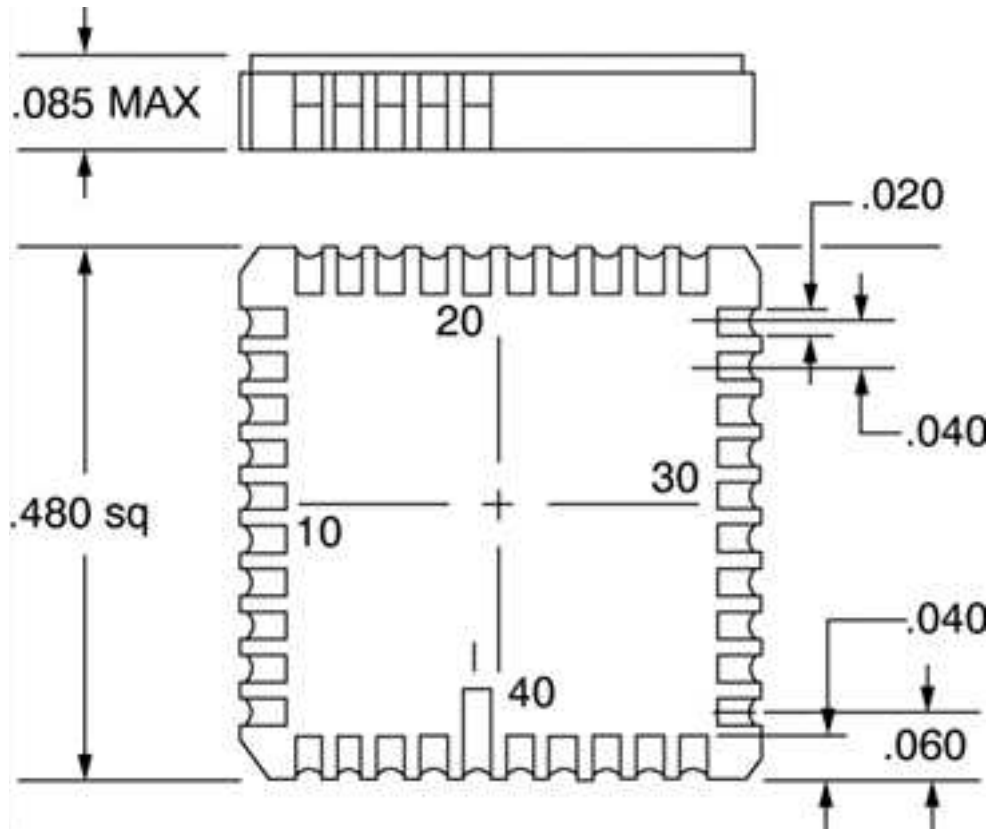
Parameter	Min	Typ	Max	Units	Condition
Frequency Stabilities¹					
vs. operating temperature range (referenced to +25°C)	-5		+5	ppm	0... +50°C
	-10		+10	ppm	0... +50°C
	-25		+25	ppm	0... +70°C (standard)
	-50		+50	ppm	-55... +85°C
	-50		+50	ppm	-55... +125°C
	-100		+100	pbm	-55... +125°C
Initial tolerance	-50		+50	ppm	@+25°C
	-25		+25	ppm	@+25°C
vs. aging / 1 year	-3		+3	ppm	after 30 days of operation
vs. aging / year (following years)	-2		+2	ppm	
Supply Voltage (Vs)					
Supply voltage (Standard)	4.75	5.0	5.25	VDC	±5 %, < 70 mA
RF Output					
Signal	ACMOS, HCMOS				
Signal	TTL				
"0" Level			0.4	V	

Performance Specifications

Parameter	Min	Typ	Max	Units	Condition
"1" Level	+2.4			V	
Rise \ Fall Time	2		15 5	ns ns	@ (0.5-2.4V), <12.5 MHZ @ (0.5-2.4V), >= 12.5 MHZ
Symmetry	45 40		55 60	% %	@+1.5 V, < 12.5 MHZ @+1.5 V, >= 12.5 MHZ

Screen Testing of Above Models				
SCREEN TEST	MIL-STD-883 METHOD	Standard	Options	
		CLASS X	CLASS B	CLASS S
Stabilization Bake (150°C)	—	X	X	Class S screen test requirements include 24 hour additional bake-out, 80 hour additional burn-in, thermal shock, PIND test and radiographic inspection in addition to Class B Screening. Has major cost impact.
Seal Test (Gross and Fine)	1014, Cond A2	X	X	
Temperature Cycling (Thermal Shock)	1010, Cond B		X	
Burn-in, operating 160 hours @125°C	—		X	
Acceleration (5000g in Y1 axis)	2001, Cond A		X	

Outline Drawing / Enclosure



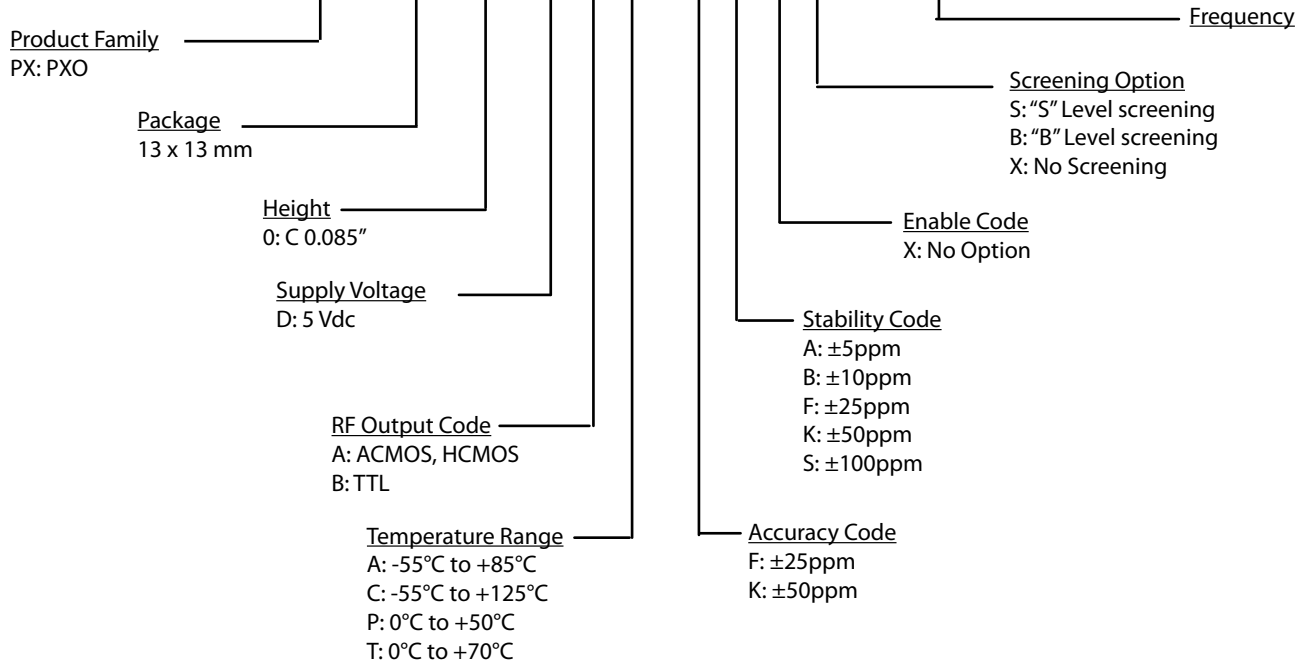
Dimensions in inches

Type C		
Code	Height "H"	Pin Length "L"
0	0.085	NA

Pin Connections	
4	Supply
10	Supply
31	Ground
37	Ground
39	Output

Ordering Information

PX - 422 0 - D A T - F K X S - 10M000000



Notes:

1. Contact factory for improved stabilities or additional product options. Not all options and codes are available at all frequencies.
2. Unless other stated all values are valid after warm-up time and refer to typical conditions for supply voltage, frequency control voltage, load, temperature (25°C).
3. Phase noise degrades with increasing output frequency.
4. Subject to technical modification.
5. Contact factory for availability.

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