

Features

- LVPECL Output
- Stabilities to ± 20 PPM
- Temperature Ranges to -40°C to $+85^{\circ}\text{C}$
- Supply Voltages: 2.5V, 3.3V

ELECTRICAL CHARACTERISTICS	
PARAMETERS	MAX (Unless otherwise noted)
Frequency Range (F_o)	13.5 ~ 250 MHz
Temperature Range	
Storage (T_{STG})	$-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$
Supply Voltage (V_{DD}) ($\pm 5\%$)	2.5V; 3.3V $\pm 10\%$
Input Current (I_{DD})	70 mA
Standby Current	15 μA
Output Symmetry (50% V_{P-P} level)	45% ~ 55%
Rise Time (20%~80% V_{P-P} level)	0.5 nS
Fall Time (80%~20% V_{P-P} level)	0.5 nS
Output Voltage Level (V_{OL})	$V_{DD} - 1.62\text{V}$
(V_{OH})	$V_{DD} - 1.025\text{V Min.}$
Output Load	50 Ohms to $V_{DD} - 2.0\text{V}$
Start-up Time (T_S)	10mS
Output Disable Time ¹	200nS
Output Enable Time ¹	10mS
Aging (@ 25C)	$\pm 5\text{PPM}$ first year
Phase Jitter (12kHz~20MHz)	1pS
Maximum Soldering Temp / Time	260°C / 10 Seconds x 2
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au over Ni
Seal Method	Seam Seal
Lead (Pb) Free	YES
RoHS/REACH Compliant	YES

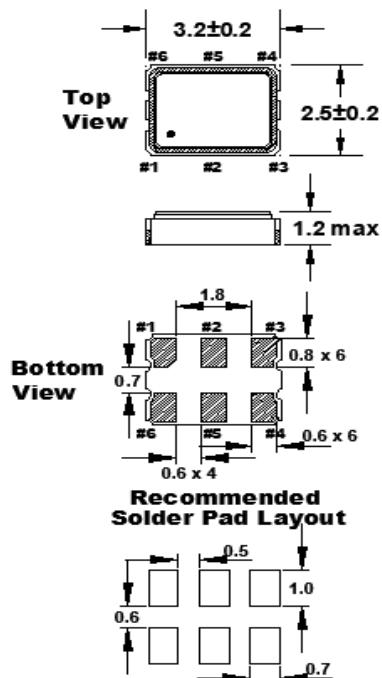
ENABLE / DISABLE FUNCTION	
Pin1	Out 1 (pin 4), Out 2 (pin 5)
OPEN ¹	Active
'1' Level $V_{IH} \geq 80\%V_{DD}$	Active
'0' Level $V_{IL} \leq 20\%V_{DD}$	High Z

Available Options by Stability & Operating Temp		
Frequency Stability ²	Operating Temperature (°C)	Frequency Range (MHz)
±100PPM	-20 ~ +70	13.5 ~ 250
±100PPM	-40 ~ +85	13.5 ~ 250
±50PPM	-20 ~ +70	13.5 ~ 250
±50PPM	-40 ~ +85	13.5 ~ 250
±25PPM	-20 ~ +70	13.5 ~ 250
±25PPM	-40 ~ +85	13.5 ~ 250
±20PPM	-20 ~ +70	13.5 ~ 250

¹ An internal pull-up resistor from pin 1 to pin 6 allows active output if pin 1 is left open.

² Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, Reflow, one-year aging, shock, and vibration.

³ Inclusive of 25°C tolerance, operating temperature range.

**DIMENSIONS / MECHANICAL
SPECIFICATIONS**

Dimensions are in millimeters.

Pin Connections

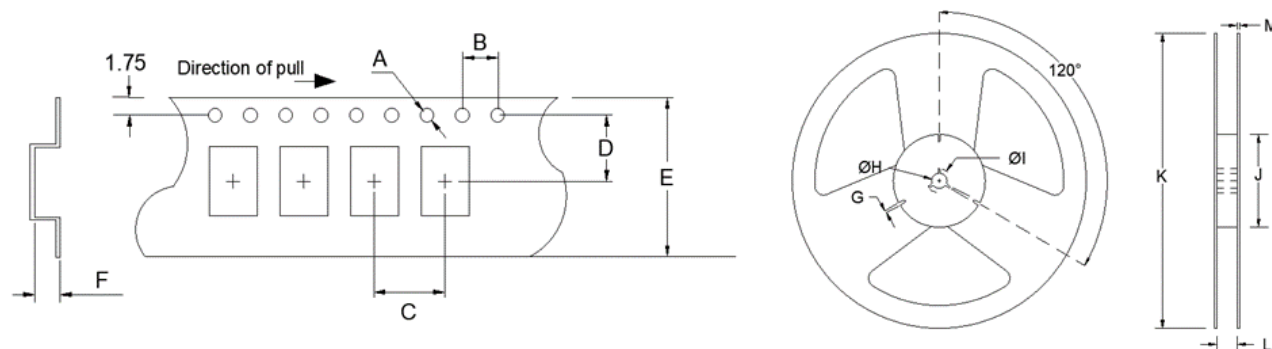
#1 E/D	#4 Out
#2 NC	#5 Out/N
#3 GND	#6 VDD

Note:

1, A $0.01\mu\text{F}$ capacitor should be placed between V_{DD} (Pin 4) and G_{ND} (Pin 2) to minimize power supply line noise.

2, Dimensional drawing is for reference to critical specifications defined by size measurements. Certain non-critical visual attributes, such as side castellations, etc. may vary.

TAPE SPECIFICATIONS (mm)							REEL SPECIFICATIONS (mm)						
A	B	C	D	E	F	REEL QTY	G	H	I	J	K	L	M
ø1.5	4.0	4.0	3.5	8.0	1.4	-T2 = 2,000 -T1 = 1,000	2.0	ø13	ø21	ø60	ø180	9.0	1.2



Available Options & Part Identification*

Sample PN: **FO3PSCBM125.0-T2**

F	O3PS	C	B	M	125.0	-T2
Fox	Model Number	Voltage J = 2.5V±10% C = 3.3V±10%	Stability A = ±100PPM B = ±50PPM D = ±25PPM E = ±20PPM	Operating Temperature F = -20 to +70°C M = -40 to +85°C	Frequency (MHz)	Values Added Options Blank = Bulk T1 = 1,000 pcs T2 = 2,000 pcs

*Not all frequencies in the frequency range, or every combination of stability, temp range, and voltage available.
See stabilities and op temps for each V_{DD}.

Reliability Test Conditions

Please contact Abracon Quality Assurance department

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