

Customer Part Number:

Fox Part Number: 826A-12.8-1



HCMOS, CERAMIC, SEAM-SEALED, SMD, OSCILLATOR
MODEL: F339R Series

RoHS Compliant / Pb Free

A. Specifications

Parameter	
Frequency	12.800 MHz
Frequency Stability ¹	±10 PPM
Temperature Range	
Operating (T _{OPR})	-40°C ~ +85°C
Storage (T _{STG})	-40°C ~ +85°C
Supply Voltage (V _{DD})	3.3V ± 5%
Input Current (I _{DD})	7 mA Max
Output Symmetry (50% V _{DD})	45% ~ 55%
Rise Time (10% ~ 90% V _{DD}) (TR)	5 nS Max
Fall Time (90% ~ 10% V _{DD}) (TF)	5 nS Max
Output Voltage (V _{OL})	10% V _{DD} Max
(V _{OH})	90% V _{DD} Min
Output Current (I _{OL})	4 mA Min
(I _{OH})	-4 mA Min
Output Load (HCMOS)	15 pF Max
Standby Current (V _{IL} ≤ 30%V _{DD})	10 uA Max
Start-up Time (T _S)	10 mS Max
Output Disable Time ²	250 nS Max
Output Enable Time ²	10 mS Max
Maximum Soldering Temp / Time	260°C / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish:	Au
Weight (TYP)	

ENABLE/DISABLE FUNCTION²

Pin 1	OUTPUT (Pin 3)
OPEN ²	ACTIVE
'1' Level V _{IH} ≥ 70%V _{DD}	ACTIVE
'0' Level V _{IL} ≤ 30%V _{DD}	High Z

¹ Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration.

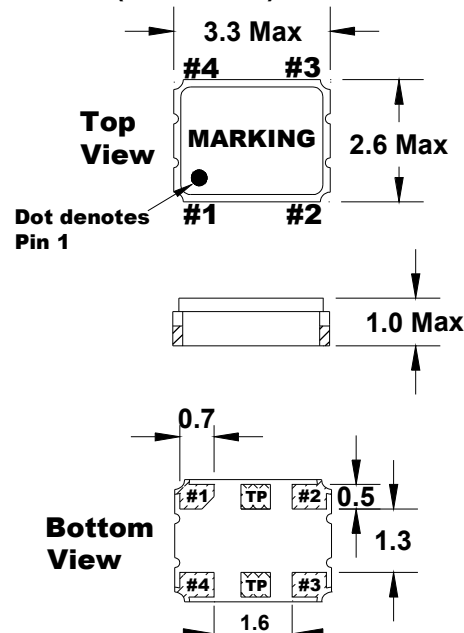
² An internal pullup resistor from pin 1 to pin 4 allows active output if pin 1 is left open.

NOTE: A 0.01μF bypass capacitor should be placed between V_{DD} (Pin 4) and GND (Pin 2) to minimize power supply line noise.

Drawing is for reference to critical specifications defined by size measurements. Certain non-critical visual attributes, such as side castellations, reference pin shape, etc. may vary. All specifications subject to change without notice.

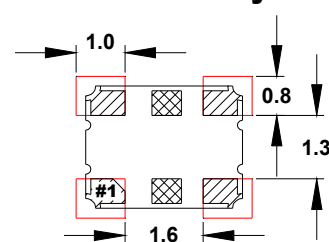
NOTE: The above specifications, having been carefully prepared and checked, is believed to be accurate at the time of publication; however, no responsibility is assumed by Fox Electronics for inaccuracies.

B. Mechanical / Dimensions (millimeters):



TP = Test Point and is No Connect

Recommended Solder Pad Layout



All dimensions are in millimeters.

Pin Connections

#1 E/D	#3 Output
#2 GND	#4 V _{DD}

Reference / Comments	Title / Description: Part Specifications		
Initial release	Drawing Number: DWG-7876	Rev: 1	Size: A
	Part Number: 826A-12.8-1		Cage: 61429
	Draftsperson: GB	Approved: JV	Date: 03-04-2013