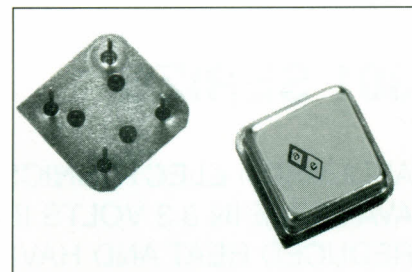


HCMOS/TTL COMPATIBLE HALF SIZE E/D CRYSTAL CLOCK OSCILLATORS

631 SERIES

ANDERSON ELECTRONICS 631 SERIES OSCILLATORS ARE CAPABLE OF DRIVING HCMOS LOADS OR UP TO 10 TTL LOADS. THESE DEVICES ARE TRI-STATE ENABLE/DISABLE WHICH FACILITATES AUTOMATIC TESTING. THE METAL PACKAGE IS PREFERRED FOR MINIMIZING EMI RADIATION.



ELECTRICAL SPECIFICATIONS

FREQUENCY RANGE	32.768 KHz to 150.000 MHz	
OPERATING TEMPERATURE	-10 to +70C STANDARD -40 to +85C or -55 to +125C OPTIONAL	
STORAGE TEMPERATURE	-55 TO +125C	
FREQUENCY STABILITY *	+/- 100 PPM STANDARD +/- 50 PPM & +/- 25 PPM OPTIONAL	
SUPPLY VOLTAGE (V _{dd})	+ 5.0VDC +/- 0.5VDC	
INPUT CURRENT	32.768 KHz to 25.000 MHz	25 mA Max
	25.001 MHz to 50.000 MHz	55 mA Max
	50.001 MHz to 80.000 MHz	65 mA Max
	80.001 MHz to 150.00 MHz	85 mA Max
SYMMETRY (DUTY CYCLE)	40/60 STANDARD 45/55 OPTIONAL	
RISE & FALL TIMES	10 nS Max < 24.000 MHz 5 nS Max > 24.001 MHz	
OUTPUT LOAD	10 TTL or 50 pF LOAD	
OUTPUT VOLTAGE (VOL)	IOL = 16 mA	0.5 V Max
(VOH)	IOH = - 4 mA	4.5 V Min
ENABLE/DISABLE FUNCTION **	'1' Level	2.4 V Min
	'0' Level	0.8 V Max
START-UP TIME	10 mS Max	

* Inclusive of operating temperature range, calibration, input voltage change, load change, aging, shock and vibration.

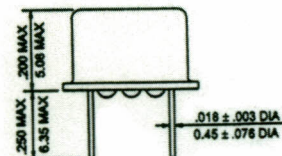
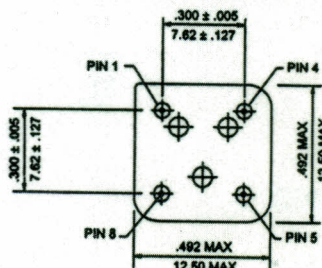
** Pin 1 has internal pull-up resistor which allows pin 1 to be left floating. This is enable high.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

ANDERSON ELECTRONICS, INC.

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PIN	FUNCTION
1	E/D
4	GROUND
5	OUTPUT
8	VCC

CONTACT FACTORY FOR YOUR SPECIAL REQUIREMENTS