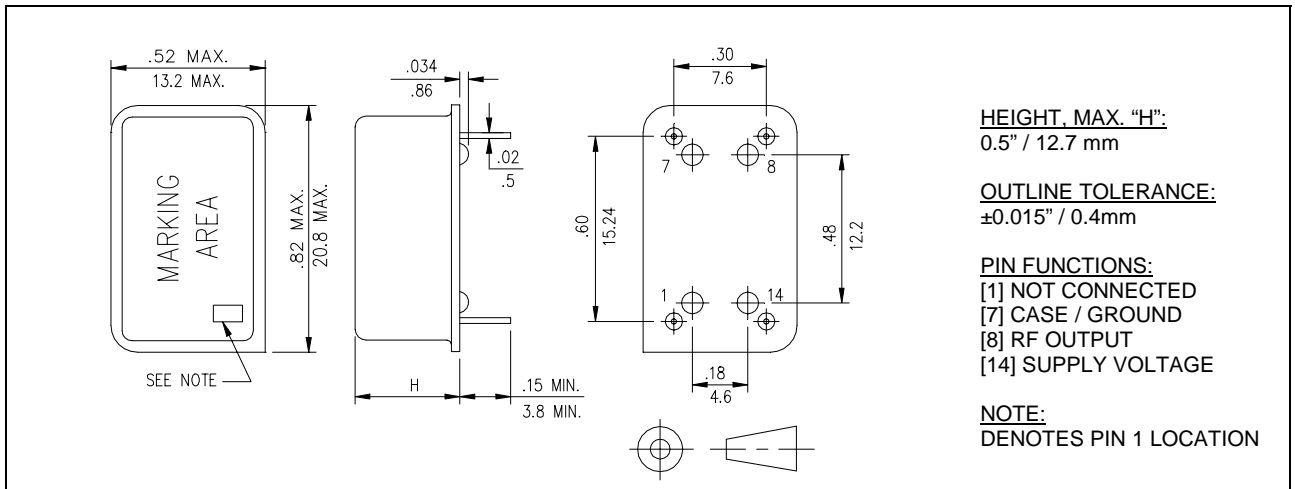


## OX4020B-D3-28-20.000-STR3-MS

### APPROVALS

RALTRON	CUSTOMER
Created by, date:	Name (please print):
Sales approval, date:	Title (please print):
Eng. approval, date:	Signature, date:
Revision: <b>ADDED DAILY AGING 3/14/01</b>	

### MECHANICAL SPECIFICATION



### ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Supply voltage, nom.	Vs	Vs±5%	3.3	V
Power dissipation, max.	Ps	Vs, nom. / Ta=+25°C	1.3	W
Heat up power, max.	Ps_heat	Vs, nom. / Ta=+25°C	3.5	W
Heat up time, max.	t_heat (Ta)	Vs, nom. / Ta=+25°C	5.0	min
Frequency nom.	fo	-	20.000	MHz
Frequency calibration	Δf/fo	Ta=+25°C	±1.5	ppm
Freq. stability vs. temperature	Δf/fc (Ta)	Ta=-40°C...+85°C	±0.280	ppm
Freq. stability vs. supply voltage	Δf/fc (ΔVcc)	per % change in voltage	±0.002	ppm
Total freq. stability	Δf/fo	over all causes including 20 year aging	±4.0	ppm
Drift	D	for 24 hrs. in a ±3°C temperature range anywhere within the operating temperature range	±0.04	ppm
Short term stability	Δf/fc(Δt)	Δt=1sec. (Allan variance)	0.00001	ppm
Daily aging, max.	Δf/fc(Δt)	Δt=1day, Vs, nom. / load, nom. / Ta=+25°C	±0.005	ppm
Phase noise @ freq. offset	£ (Δf)	Δf=100Hz	-125	dBc/Hz
	£ (Δf)	Δf=1kHz	-135	dBc/Hz
	£ (Δf)	Δf=10kHz	-140	dBc/Hz
	£ (Δf)	Δf=100kHz	-145	dBc/Hz
HCMOS	VOH / VOL	load=10pF; Vs, nom.	2.97/ 0.3	V
Duty cycle	DC	load=10pF / @ 50% level	40...60	%
Rise- / fall time	tr / tf	10%~90% Vout, 90%~10% Vout	10.0	ns
Storage temperature range	Tstg	-	-55...+90	°C

3/14/2001 marketing-rfq, ocxo, OX80