

DIL 14 STRATUM III TCXO

DFA 14-CH (5 V) & DFA 14-CLH (3.3 V)

KEY FEATURES

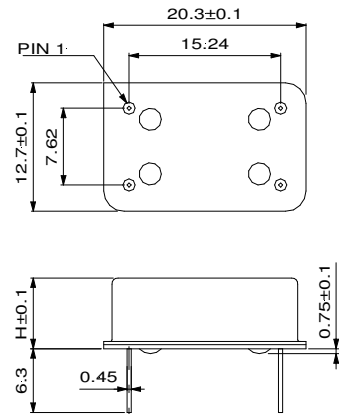
5 to 52 MHz

Stratum III compliant over -40 to 85°C up to 38.88 Mhz

Sonet Minimum Clock compliant over -40 to 85°C up to 52 MHz

APPLICATIONS

Stratum III & SMC



H = 8.50 mm

Function	DFA 14
N/C	1
GND	7
Output	8
Vcc	14

TYPE	DFA 14-CH	DFA 14-CLH
Frequency Range	5 to 20 MHz, soon to 38.88 MHz* (BSM & ESM up to 52 MHz*)	
Standard Frequencies	12.8, 16.384, 19.44, 20, 34.368*, 38.88* & 44.736* MHz	

ELECTRICAL SPECIFICATIONS		
supply voltage	5 V \pm 5 %	3.3 V \pm 5 %
supply current (no load)	\leq 20 mA	\leq 10 mA
output load	HCMOS 15 pF or 2 TTL	HCMOS 15 pF or 2 TTL
duty cycle @ 50% level	45/55...55/45 %	45/55...55/45 %
rise/fall times (10 to 90 %)	\leq 5 ns	\leq 5 ns
high/low levels or output amplitude	\geq 4.5 V / \leq 0.5 V	\geq 2.8 V / \leq 0.3 V
start-up	\leq 10 ms @ 4.75 V	\leq 10 ms @ 3.15 V

FREQUENCY STABILITY			detailed tolerances [ppm]						
type	temperature range	model code	stability versus: temperature Vcc ± 5 % ageing			overall stability	Holdover stability	24 hrs drift	calibration @ 25°C
			Telcordia GR-1244 CORE Stratum III or ITU-T G.813 option 1						
all types	0 to 50 °C	AS3	≤ ± 0.28	≤ ± 0.3	≤ ± 3 over 15 years	≤ ± 4.6 over 15 years	≤ ± 0.37	≤ ± 0.04	≤ ± 0.8
	0 to 70 °C	BS3							
	-20 to 70 °C*	CS3							
	-40 to 85 °C*	ES3							
			Telcordia GR-253 CORE SMC or ITU-T G.813 option 2						
all types	0 to 70 °C	BSM	≤ ± 3.5	≤ ± 0.3	≤ ± 10 over 20 years	≤ ± 20 over 20 years	≤ ± 4.6	≤ ± 0.5	≤ ± 1
	-40 to 85 °C	ESM							
DEFINITIONS									
24 hours drift			GR-1244-CORE, GR-253-CORE or G.813						
24 hours holdover mode			Over full temperature range and Vcc ± 0.5 %						

ORDERING CODE	type + option code + frequency + model code
Example	DFA 14-CLH 19.44 MHz ESM

* Preliminary, please consult factory for details