

STRATUM III MINIATURE SURFACE MOUNT TCXO

DFA S2-KHZ (5 V) & DFA S2-LHZ (3.3 V)

KEY FEATURES

5 to 52 MHz

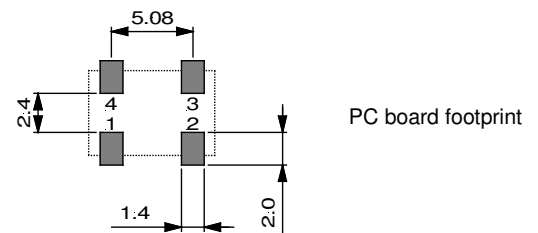
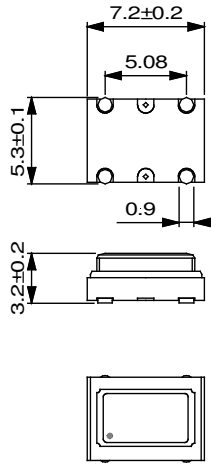
Stratum III compliant over -40 to 85°C up to 20 Mhz

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

APPLICATIONS

Stratum III & SMC

Function	DFA S2
E/D	1
GND	2
Output	3
Vcc	4



TYPE	DFA S2-KHZ	DFA S2-LHZ
Frequency Range	5 to 20 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
tri-state control on pin 1	high or open = enable, low = high Z	high or open = enable, low = high Z

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	≤ ± 0.1	≤ ± 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 \pm 0.5 %

ORDERING CODE	type + option code + frequency + model code
Example	DFA S2-LHZ 19.44 MHz BS3

Not all combinations of temperature ranges and stabilities are available. Please consult factory for details.

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CTS:

[DFA S4-LHV 32.768 M C2.0](#)