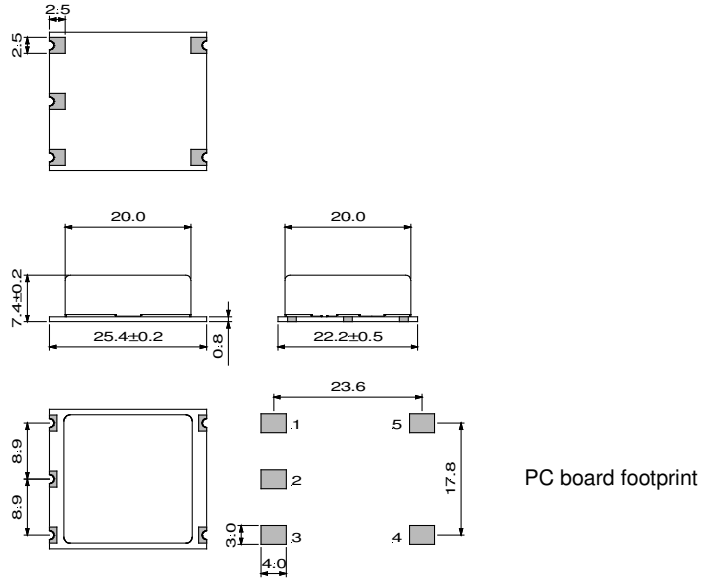


STRATUM III SURFACE MOUNT TCXO

DFA S4-KHZ (5 V) & DFA S4-LHZ (3.3 V)

KEY FEATURES
5 to 20 MHz Stratum III compliant over -40 to 85 °C up to 20 Mhz
APPLICATIONS
Stratum III

Function	DFA S4
NC	1
E/D	2
Vcc	3
Output	4
Gnd	5



TYPE	DFA S4-KHZ	DFA S4-LHZ
Frequency Range	5 to 20 MHz	
Standard Frequencies	12.8, 16.384, 19.44 & 20 MHz	

ELECTRICAL SPECIFICATIONS	DFA S4-KHZ	DFA S4-LHZ
supply voltage	5 V ± 5 %	3.3 V ± 5 %
supply current (no load)	≤ 20 mA	≤ 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 %)	≤ 5 ns	≤ 5 ns
high/low levels or output amplitude	≥ 4.5 V / ≤ 0.5 V	≥ 2.8 V / ≤ 0.3 V
start-up	≤ 10 ms @ 4.75 V	≤ 10 ms @ 3.15 V
tri-state control on pin 2	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:			overall stability	Holdover stability	24 hrs drift	calibration @ 25°C
			temperature	Vcc ± 5 %	ageing				
Telcordia GR-1244 CORE Stratum III or ITU-T G.813 option 1									
all types	0 to 50 °C	AS3	≤ ± 0.28	≤ ± 0.01	≤ ± 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							

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 S4-LHZ 20.000 MHz ES3