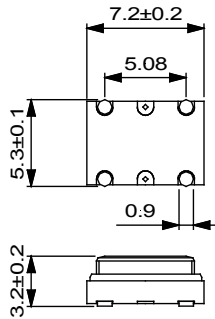


## ENHANCED SURFACE MOUNT TCXO

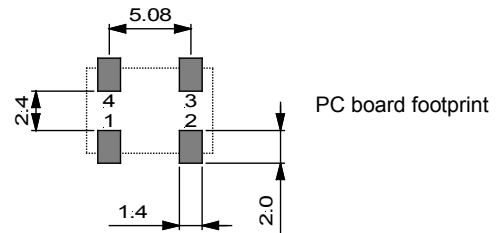
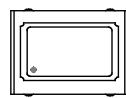
### DFA S2-KHZ/KHV (5 V) or LHZ/LHV (3.3 V) or UHZ/UHV (3.0 V)

FEATURES
5 to 20 MHz, soon to 26 MHz
HCMOS output, Tight stability $\pm 70$ ppb
Analogue temperature compensation
APPLICATIONS
Transmissions, SDH/Sonet, Microwave

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



PRELIMINARY



TYPE	DFA S2-KHZ	DFA S2-LHZ	DFA S2-UHZ
Frequency Range	5 to 20 MHz, soon to 26 MHz		

ELECTRICAL SPECIFICATIONS	DFA S2-KHZ	DFA S2-LHZ	DFA S2-UHZ
supply voltage	5 V $\pm$ 5 %	3.3 V $\pm$ 5 %	3.0 V $\pm$ 5 %
supply current ( no load)	$\leq$ 10 mA	$\leq$ 7 mA	$\leq$ 6 mA
output load	HCMOS 15 pF or 1 TTL	HCMOS 15 pF or 1 TTL	HCMOS 15 pF or 1 TTL
duty cycle @ 50% level	45/55...55/45 %	45/55...55/45 %	45/55...55/45 %
rise/fall times (10 to 90 %)	$\leq$ 5 ns	$\leq$ 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	$\geq$ 2.5 V / $\leq$ 0.3 V
start-up	$\leq$ 10 ms @ 4.75 V	$\leq$ 10 ms @ 3.15 V	$\leq$ 10 ms @ 2.85 V
tri-state control on pin 1 (not available with option V)	high or open = enable low = high Z	high or open = enable low = high Z	high or open = enable low = high Z

FREQUENCY STABILITY			detailed tolerances				
type	temperature range	model code	temperature	stability versus:		calibration @ 25°C	
				Vcc $\pm$ 5 %	load $\pm$ 10 %	ageing	
all types	-20 to 70°C	C78*	$\leq \pm 70$ ppb	$\leq \pm 0.1$ ppm	$\leq \pm 0.1$ ppm	$\leq \pm 1$ ppm	$\leq \pm 1$ ppm
		C17*	$\leq \pm 100$ ppb				
	-40 to 85°C	E17*	$\leq \pm 100$ ppb				
		E27*	$\leq \pm 200$ ppb				
remarks			* Not available at all frequencies, please consult factory for more details ageing is 1 <sup>st</sup> year at 25°C				

OPTIONS	CODE	DFA S2-KHZ	DFA S2-LHZ	DFA S2-UHZ
voltage control on pin 1 (positive slope)	V	$\geq \pm 5$ ppm, $\leq \pm 15$ ppm 2.5 V $\pm$ 2.0 V	$\geq \pm 5$ ppm, $\leq \pm 15$ ppm 1.65 V $\pm$ 1.35 V	$\geq \pm 5$ ppm, $\leq \pm 15$ ppm 1.5 V $\pm$ 1.0 V
remark		No tri-state function with this option (code KHV, LHV and UHV)		

ORDERING CODE	type + option code + frequency + model code
Example	DFA S2-LHZ 20 MHz E17