

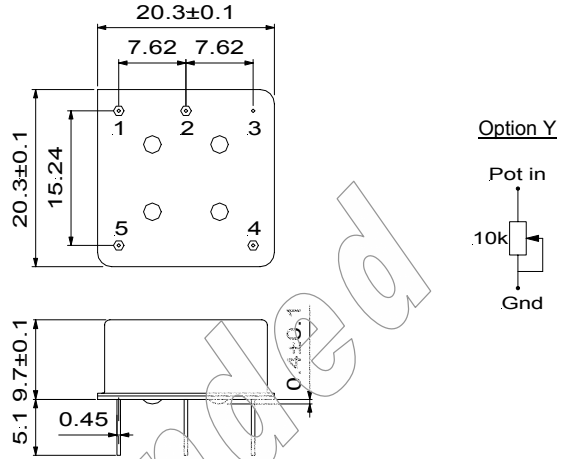
HIGH STABILITY SMALL SIZE TCXO
DFA 20

OPTIONAL EXTERNAL VOLTAGE CONTROL

VERY HIGH OVERALL STABILITY

STANDARD PACKAGE

LOW AGEING



Function	DFA 20
Vcc	1
Output	2
GND	3
GND/Pot in/Vco	4
GND	5

TYPE	DFA 20-H	DFA 20-MH	DFA 20-S	DFA 20-O
Frequency Range (MHz)	1 to 27	25 to 40	4 to 27	1 to 27

ELECTRICAL SPECIFICATIONS				
supply voltage		5 to 15 V \pm 5 %	5 to 15 V \pm 5 %	5 to 15 V \pm 5 %
supply current (no load)	\leq 25 MHz	\leq 7 mA	\leq 20 mA	\leq 7 mA
	$>$ 25 MHz	\leq 30 mA	\geq 30 mA	\leq 10 mA
output load		HCMOS 15 pF or 2 TTL	Sine 50 Ω \pm 10 %	clipped sine 20 k Ω /5 pF
duty cycle @ 2.5 V		\leq 40/60...60/40 %		
rise/fall times		\leq 10 ns		
high/low levels or output amplitude		\geq 3.5/ \leq 0.5 V	0 dBm \pm 2 dB	\geq 2 V p-p
start-up		\leq 10 ms	\leq 10 ms	\leq 10 ms

FREQUENCY STABILITY						
types	temperature range	model code	Detailed tolerances [ppm]			
			temperature	Vcc \pm 5 %	load \pm 10 %	ageing
all types	0 to 50°C	A0.5	\leq \pm 0.5	\leq \pm 0.1	\leq \pm 0.1	\leq \pm 1
	-10 to 60°C	D1	\leq \pm 1			
	-20 to 70°C	C1	\leq \pm 1			
		C2	\leq \pm 2			
	-30 to 75°C	N2	\leq \pm 2			
-40 to 85°C	E3	\leq \pm 3				
remarks	Factory calibration if no trimming option \leq \pm 1 ppm ageing is 1 st year at 25°C					

OPTIONS	CODE	
external voltage	Y	2.5 \pm 2 V \geq \pm 5 ppm , positive slope
internal trimmer	A	\geq \pm 5 ppm
external potentiometer	Y	10 k Ω \geq \pm 5 ppm (not available with internal trimmer)

ORDERING CODE	type + option code + frequency + model code/ voltage value
Example	DFA 20-HA 12.288 MHz N2/5