

LOW POWER MINIATURE SURFACE MOUNT TCXO

DFA S3-KH (5 V) & LH (3.3 V)

RECOMMENDED FOR NEW DESIGNS

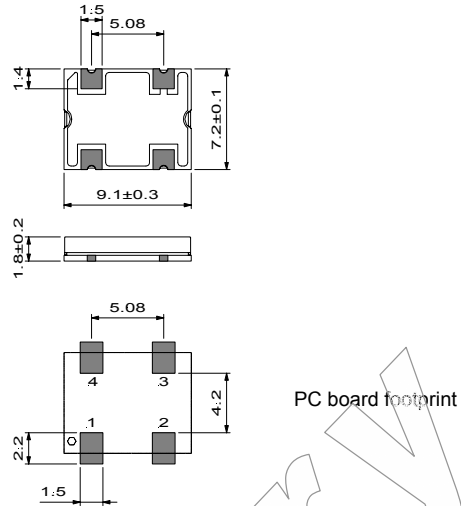
HCMOS OUTPUT

CRYSTAL PACKED INTO ITS OWN HOLDER

EXTERNAL VOLTAGE CONTROL

LOW PROFILE

Function	DFA S3
V control / GND	1
GND	2
Output	3
Vcc	4
PIN 1 TO BE GROUNDED IF NO CTRL VOLTAGE OPTION	



TYPE	DFA S3-KH	DFA S3-LH
Frequency Range	5 to 25 MHz	5 to 25 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	temperature	stability versus :		calibration @ 25°C
all types	0 to 70°C	B0.5	$\leq \pm 0.5$	Vcc $\pm$ 5 %	load $\pm$ 10 %	ageing
	-20 to 70°C	C1.5	$\leq \pm 1.5$	$\leq \pm 0.3$	$\leq \pm 0.1$	$\leq \pm 1$
	-30 to +75°C	N2.5	$\leq \pm 2.5$			$\leq \pm 1$
remark			ageing is 1 st year at 25°C			

OPTIONS	CODE	
voltage control (positive slope)	V	$\geq \pm 5$ ppm, $\leq \pm 15$ ppm 2.5 V $\pm$ 2 V
		$\geq \pm 5$ ppm, $\leq \pm 15$ ppm 1.65 V $\pm$ 1.35 V

ORDERING CODE	type + option code + frequency + model code
Example	DFA S3-KHV 19.44 MHz N2.5