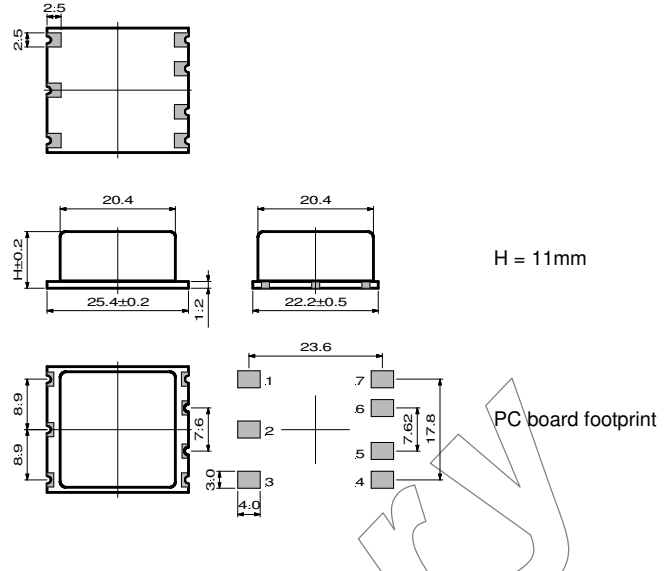


HIGH PERFORMANCE SMD OCXO TYPE DFO S4-S

FEATURES
10 MHz
Standard package
Very high stability
APPLICATIONS
Instrumentation, reference

Function	DFO S4
Output	1
Oven alarm output	2
GND	3
V ref.	4
Voltage control	5
E/D	6
Vcc	7



TYPE	DFO S4-S
Frequency	10 MHz

ELECTRICAL SPECIFICATIONS	
supply voltage	$12\text{ V} \pm 5\%$
supply current (no load) @ 25°C	$\leq 100\text{ mA}$
supply current during warm up	$\leq 350\text{ mA}$
output load	SINE WAVE, $50\ \Omega$
output level	$\geq +5\text{ dBm}, \leq +10\text{ dBm}$
harmonics	-20 dBc
SSB phase noise (1 Hz B.W.)	$-145\text{ dBc/Hz @ } 100\text{ Hz}$ $-150\text{ dBc/Hz @ } 1\text{ kHz}$ $-150\text{ dBc/Hz @ } 10\text{ kHz}$ $-150\text{ dBc/Hz @ } 100\text{ kHz}$
Enable/disable (pin 6)	low = disable, high = enable
Oven alarm output (pin 2)	low = alarm, high = oven ready
V ref. (pin 4)	5 V
warm up time	$\leq \pm 10\text{ ppb in } 10\text{ min @ } 25^\circ\text{C}$

FREQUENCY STABILITY			detailed tolerances after 30 days of operation					
type	temperature range	model code	stability versus :					
			Temperature	Vcc $\pm 5\%$	Load $\pm 5\%$	Daily ageing	Yearly ageing	Calibration @ 25°C
all types	-10 to 60°C	D5	$\leq \pm 5\text{ ppb}$	$\pm 0.5\text{ ppb typ.}$	$\leq \pm 0.5\text{ ppb}$	$\leq \pm 0.5\text{ ppb}$	$\leq \pm 30\text{ ppb}$	$\leq \pm 50\text{ ppb}$
Long term ageing			$\leq \pm 500\text{ ppb over } 15\text{ years}$					
Short term stability (Allan variance)			5×10^{-12} for T = 1 sec., 1×10^{-11} for T = 10 sec.					

OPTIONS	CODE	
external voltage	V	0 V to Vref centered @ $2.5\text{ V} \geq \pm 1\text{ ppm}$

ORDERING CODE	type + option code + frequency + model code + voltage
Example	DFO 25-S 10 MHz D5/12