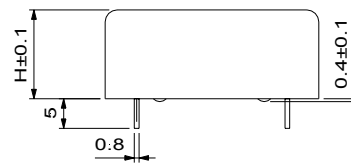
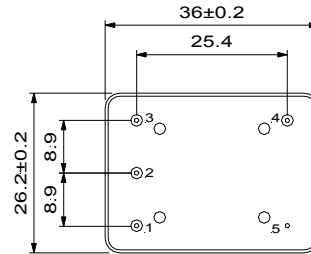


**STRATUM IIIE OCXO
TYPES DFO 236-MSH**

FEATURES
<p>4 to 20 MHz</p> <p>Stratum IIIE compliant over 0 to 70°C</p> <p>SC cut crystal</p>
APPLICATIONS
<p>Stratum IIIE</p>



H = 17.0 mm

Function	DFO 236-MSH
NC	1
NC	2
Vcc	3
Output	4
GND	5

TYPE	DFO 236-MSH
Frequency Range	4 to 20 MHz
Standard frequencies	12.8, 16.384, 19.44 & 20 MHz

ELECTRICAL SPECIFICATIONS	
supply voltage	5 V ± 5 %
supply power (no load) @ 25°C	≤ 1 W
supply power during warm up	≤ 5 W
output load	HCMOS 15 pF or 2 TTL
duty cycle @ 2.5 V	40/60...60/40 %
rise & fall times (10 to 90%)	≤ 15 ns
high/low levels or output amplitude	≥ 3.5 V/≤ 0.5 V
SSB phase noise (1 Hz BW) @ 1 Hz	-90 dBc/Hz
(typical @ 12.8MHz) @ 10 Hz	-120 dBc/Hz
@ 100 Hz	-130 dBc/Hz
@ 1 kHz	-135 dBc/Hz
warm up time to reach ≤ 1 x 10E-7	≤ 10 min

FREQUENCY STABILITY			detailed tolerances						
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 IIIE									
all types	0 to 70°C	BS3E	≤ ± 1 x 10E-8	≤ ± 1 x 10E-9	≤ ± 3.5 ppm over 20 years	≤ ± 4.6 ppm over 20 years	≤ ± 12 x 10E-9	≤ ± 1 x 10E-9	≤ ± 5 x 10E-7
	-20 to 70°C	CS3E							

DEFINITIONS	
24 hours drift	GR-1244-CORE
24 hours holdover mode	Over full temperature range and Vcc ± 1 %

ORDERING CODE	type + option code + frequency + model code + voltage value
Example	DFO 236-MSH 12.8 MHz CS3E