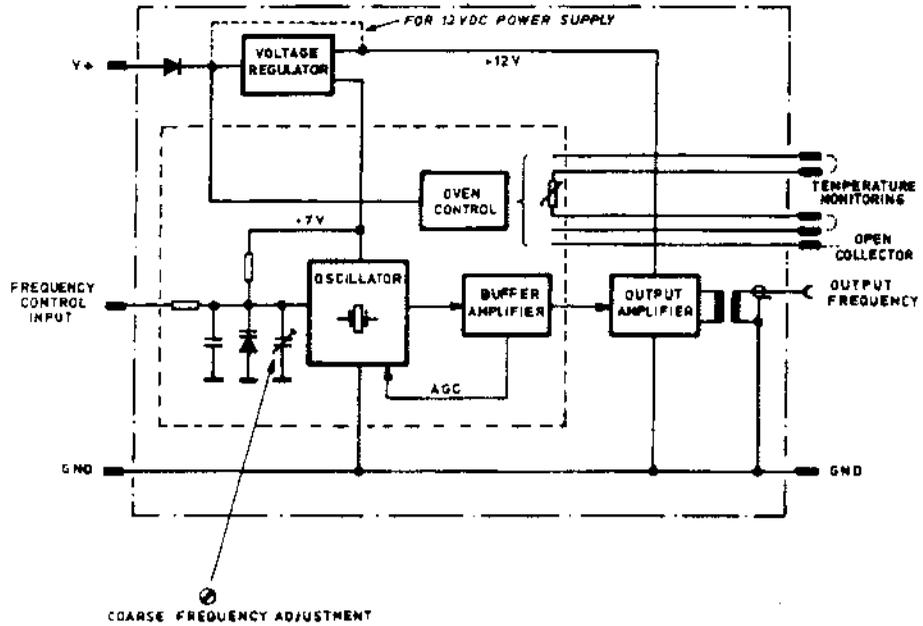


TECHNICAL SPECIFICATIONS

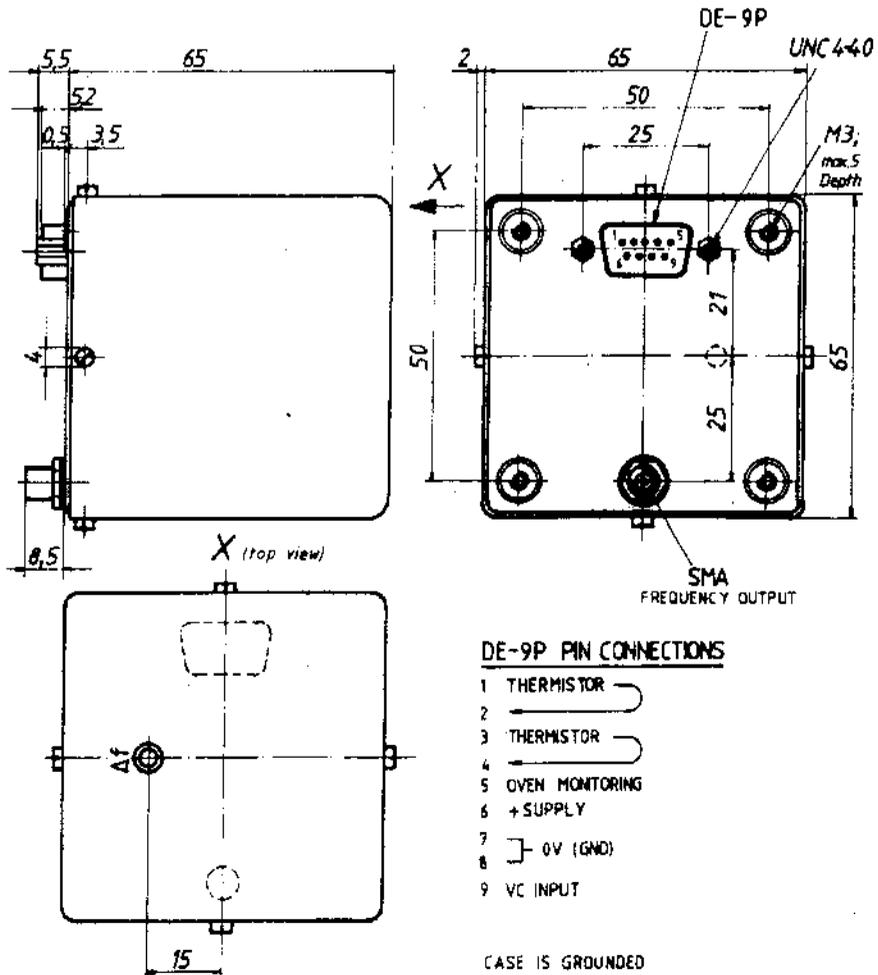
(unless otherwise noted, given at +25°C)

8655 S	8656 S	OSCILLATOR TYPE
AT-cut, 5th overtone	AT-cut, 5th overtone	CRYSTAL RESONATOR
5 - 10 MHz	5 - 10 MHz	OUTPUT FREQUENCY
2x10 ⁻¹⁰ /day 1x10 ⁻⁸ /year	2x10 ⁻¹⁰ /day 1x10 ⁻⁸ /year	FREQUENCY STABILITY :
4x10 ⁻⁹ typical, max. : 8x10 ⁻⁹	4x10 ⁻⁹ typical, max. : 8x10 ⁻⁹	- LONG TERM (aging) AFTER 90 DAYS OF CONTINUOUS OPERATION
for +24 VDC ± 10% : 4x10 ⁻¹⁰ typ. max. : 8x10 ⁻¹⁰	for +12 VDC ± 10% : 4x10 ⁻¹⁰ typ. max. : 8x10 ⁻¹⁰	- OVER TEMPERATURE RANGE -40 to +70°C
< 5x10 ⁻¹⁰ for 50 Ω ± 10%	< 5x10 ⁻¹⁰ for 50 Ω ± 10%	- VERSUS SUPPLY VOLTAGE CHANGES
< 5x10 ⁻¹¹ for τ = 0.1-10 sec.	< 5x10 ⁻¹¹ for τ = 0.1-10 sec.	- VERSUS LOAD CHANGES
for 5, 8.192 and 10 MHz	for 5, 8.192 and 10 MHz	- SHORT TERM σ (τ) (see also option 02)
1 Hz : - 90 dB	1 Hz : - 90 dB	- PHASE NOISE SPECTRAL DENSITY ϕ - minimum values (see also option 03)
10 Hz : -120 dB	10 Hz : -120 dB	
100 Hz : -142 dB	100 Hz : -142 dB	
from 1000 Hz : -152 dB	from 1000 Hz : -152 dB	
< 5x10 ⁻⁷ after 10 minutes	< 5x10 ⁻⁷ after 10 minutes	FREQUENCY RETRACE AFTER 24 HOURS "OFF" AND COMPARED WITH FREQUENCY BEFORE INTERRUPTION
< 1x10 ⁻⁸ after 20 minutes	< 1x10 ⁻⁸ after 20 minutes	
< 5x10 ⁻⁹ after 30 minutes	< 5x10 ⁻⁹ after 30 minutes	
with built-in trimmer : > 6x10 ⁻⁷	with built-in trimmer : > 6x10 ⁻⁷	FREQUENCY ADJUSTMENT
with voltage control ± 5 V : ± 1x10 ⁻⁷ (optional : 0 to + 10 V or ± 10 V)	with voltage control ± 5 V : ± 1x10 ⁻⁷ (optional : 0 to + 10 V or ± 10 V)	- COARSE
		- FINE (for coarse adjustment centered)
+18 to +32 VDC (nominal +24 VDC)	+12 VDC ± 10%	POWER SUPPLY REQUIREMENTS
16 W during warm-up time	16 W during warm-up time	- INPUT VOLTAGE
< 4 W after 5 minutes at +25°C	< 4 W after 5 minutes at +25°C	- POWER CONSUMPTION
1 output 0.5 VRMS/50 Ω	1 output 0.5 VRMS/50 Ω	OUTPUT CHARACTERISTICS
sine	sine	- WAVE FORM
50 Ω	50 Ω	- SOURCE IMPEDANCE
-40 to +70°C	-40 to +70°C	TEMPERATURE RANGES
-55 to +125°C	-55 to +125°C	- OPERATING
		- STORAGE
320 g	320 g	WEIGHT
65 x 65 x 65 mm	65 x 65 x 65 mm	SIZE
SMA female and 9 pins latch connector (see drawing)	SMA female and 9 pins latch connector (see drawing)	ELECTRICAL CONNECTIONS
option 01 :	output provided on 9 pins latch connector (pin 8, instead of SMA)	<u>OPTIONS AVAILABLE</u>
option 02 :	σ(τ) < 2x10 ⁻¹¹ for τ = 0.1-10 sec.	
option 03 :	ϕ for 5, 8.192 MHz and 10 MHz 1 Hz : -100 dB 10 Hz : -130 dB 100 Hz : -150 dB from 1000 Hz : -155 dB	
option 04 :	voltage control 0 to + 10 V	
option 05 :	voltage control ± 10 V	
upon request :	- temperature stability and temperature range adapted to customer's requirements - frequency pulling range repartition (coarse and fine) adapted to customer's requirements	

BLOCK DIAGRAM



OUTLINES AND ELECTRICAL CONNECTIONS (all dimensions in millimeters)



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