

ELECTRICAL
CHARACTERISTICS

PARAMETER	Unit	Min.	Value	Max.	Note	Comments
OSCILLATION FREQUENCY	MHz	1190		1250	5	
TEMPERATURE RANGE						
Operating	°C	-10		+85	3	
Storage	°C	-55		+125	4	
POWER OUTPUT (versus all causes)	dBm	5	7	9	5	
CONTROL VOLTAGE	V	1.5		8	5	
TUNING SENSITIVITY	MHz/V	10		20	1-5	
FREQUENCY VARIATION						
Temperature	MHz			±6	3	
Pushing	MHz			±1	4	
Pulling VSWR 1:6	MHz			±5	2, 4	
HARMONICS H2. H3	dBc			-10	4	
PHASE NOISE						
Offset : 10 KHz	dBc/Hz		-100	-90	3	
Offset : 100 KHz	dBc/Hz		-120		3	
POWER SUPPLY						
Voltage	V		9 ±5%			
Current	mA			30	5	

- Notes :
- 1 . Control voltage sensitivity = $F_{max} - F_{min} / (V_{Fmax} - V_{Fmin})$.
 - 2 . Return loss dB ; value pk - pk.
 - 3 . Parameter guaranteed by periodical qualification.
 - 4 . Parameter guaranteed by design and characterization.
 - 5 . Parameter tested at 100 %.

D	28/07/99	EC	Lid soldering informations		
C	20.5.99	EC	Sensitivity addition		
B	15.3.99	EC	Update		
A	22.2.99	EC	Dimensions and pin 1 indications		
INDICE	DATE	AUTEUR	MODIFICATIONS		
Rip :	Date :	Visa :	Qualité :	Date :	Visa :
THALES MICROSONICS			FICHE TECHNIQUE		
			EW SO 1298		
FT004M620					Page 1/2

PACKAGE OUTLINE

Packing unit : 100 pieces in a tray.

Marking : **THALES MICROSONICS**
EW SO 1298
YYWW

Location of Pin 1

Pin nb	Function
1	Control voltage
2	VCC
3	RF OUT

Dimensions in mm.

Nota : The lid is soldered with soldered join.

RELIABILITY TEST

ITEM	TEST	REFERENCE
Shocks	Each axe	IEC 68-2-27
Vibration	Each axe	IEC 68-2-6
Brasability	IR furnace	IEC 68-2-20
Resistance to solvents		IEC 68-2-45
Temperature cycling	25 cycles	IEC 68-2-14
Climatic sequence		IEC 68-1 art 7
Humidity resistance	56 days	IEC 68-2-3
Life test	1000 hours	—
Warm storage aging	1000 hours	—

Nota : If some tests already been made on similar products (on which this VCO can be associated), they will not be made another time.

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THALES MICROSONICS			FICHE TECHNIQUE		
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			FT004M620		Page 2/2

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