

# TEST DATA FOR OSCILLATOR

No. 0217

CUSTOMER 株式会社 マガテック  
 MODEL TTS18NSH-A7  
 PARTS T03H3600RBXNBXXZL  
 NOMINAL  
 FREQUENCY 36.000000 MHz

QUANTITY 10 pcs  
 SPECIFICATION No. 120-19726  
 MANUFACTURING No. HOE-0217  
 ROOM TEMPERATURE 25.3 °C  
 HUMIDITY 36.0 %

DATE 2012.08.16  
 APPROVED *[Signature]*  
 CHECKED *[Signature]*  
 PREPARED *[Signature]*

Measurement Item	Electrical Specification		Condition	Measurement Results										Unit
	Specification	Condition		1	2	3	4	5	6	7	8	9	10	
1. Outer Appearance				good	good	good	good	good	good	good	good	good	good	good
2. Output Frequency	+/- 1.0 ×10 <sup>-6</sup> max.			-0.33	-0.25	-0.53	-0.22	-0.08	-0.39	-0.28	-0.56	-0.03	-0.50	
3. Input Current	1.5 mA max.	3.30 V		1.45	1.45	1.46	1.47	1.45	1.46	1.47	1.48	1.47	1.46	
4. Frequency Adjust	×10 <sup>-6</sup> min. ×10 <sup>-6</sup> max.	+		-	-	-	-	-	-	-	-	-	-	
5. Output Voltage	0.8 Vp-p	min.	10kΩ//10pF	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
6. Frequency - Voltage Coefficient *1	±0.2 ×10 <sup>-6</sup> max.			+10.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
				-10.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7. Frequency - Load Coefficient *2	±0.2 ×10 <sup>-6</sup> max.			+10.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
				-10.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8. Frequency - Temperature (-30°C~85°C)	± 0.5 ×10 <sup>-6</sup> max			-30 °C	0.04	-0.02	-0.04	-0.01	-0.03	0.10	-0.18	-0.32	0.11	0.10
				-10 °C	0.26	0.21	0.13	0.34	0.16	0.34	0.32	0.23	0.14	0.14
				0 °C	0.16	0.15	0.09	0.46	0.14	0.32	0.25	0.22	0.10	0.04
				25 °C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
				50 °C	-0.05	0.31	0.03	-0.04	-0.01	0.02	0.08	0.00	-0.04	0.11
9. Voltage Controlled Range	×10 <sup>-6</sup>			60 °C	-0.15	-0.01	0.05	-0.05	-0.16	-0.06	0.07	0.00	-0.08	0.02
				85 °C	-0.15	0.06	-0.13	-0.24	-0.24	-0.01	-0.02	-0.11	0.12	
				Vc= V										
10. Rise Time	nsec max.			% - %										
				nsec max.										
11. Duty - Cycle	% - %			at V										
				max.										

\*1 In case the Voltage coefficient is a equal or less than 0.00ppm, it states as " 0.00 "

\*2 In case the Load coefficient is a equal or less than 0.00ppm, it states as " 0.00 "