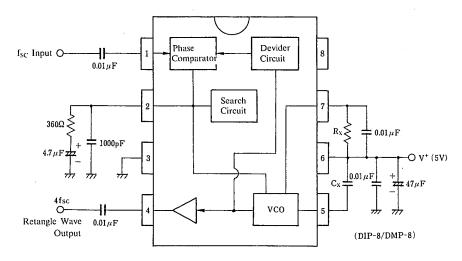




NJM2240



BLOCK DIAGRAM & EXTERNAL COMPONENTS

There is stray capacity assembled on PC board, and so select Rx, Cx to the value which pin 2 voltage (search voltage at VCO locked) becomes about 2V. Cx>4pF, $Rx>2.7k\Omega$.

	NTSC	PAL	
	4 Multiplier	4 Multiplier	
Cx	6 p	5 p	
Rx	4.3k	3.3 k	

■ ABSOLUTE MAXIMUM RATINGS

(Ta=25℃)	

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V*	8	v
Input Voltage	Vin	GND-0.3~V*+0.3	v
Power Dissipation	PD	(DIP8) 500	mW
		(DMP8) 300	mW
Operating Temperature Range	Topr	-20~+75	C
Storage Temperature Range	Tstg	-40~+125	r

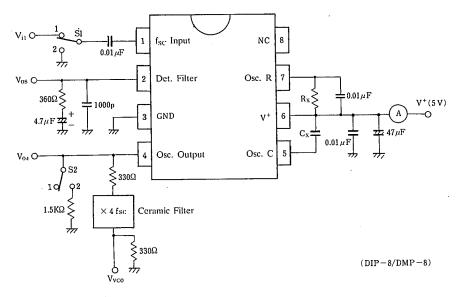
ELECTRICAL CHARACTERISTICS

UNIT MIN. TYP. MAX. SYMBOL TEST CONDITION PARAMETER \mathbf{V}^+ 4.7 5.0 5.3 v Recommended Oper. Voltage Range S1=1, S2=1, input Vil: 3.58MHz 7 10 13 mΑ I_{CC} **Operating Current** Count Current S1 = 1, S2 = 1, input Vi1 : 3.58 or 4.43 MHz1.0 2.0 0.12 Vp-p V_{fsc} Input Voltage Swing Range (sine wave), guaranteed Vi1 voltage range. S1=1, S2=1, input Vi1: 3.58 or 4.43MHz ____ 0.05 _ Vp-p Vis Input Sensitivity (sine wave), actually tested minimum Vi1 voltage. S1=1, S2=2, input Vil: 3.58MHz, 1.0V_{P-P} 0.7 0.9 1.1 Vp-p V₀₄ VCO Oscillation Swing S1=1, S2=2, input Vil: 3.58MHz, 1.0V_{P-P} -50dB _ _ fsc Leakage L_{fsc} V_{O4} (fsc level/4fsc level) S1=1,S2=2, input Vil: 3.58MHz, 45 50 55 % D_{4fsc} 4fsc Output Duty 1.0Vp-p, V₀₄ output signal duty.

(V⁺=5V, Ta=25℃)

NJM2240

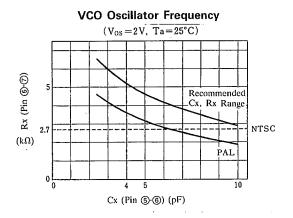
TEST CIRCUIT



(note 1): Rx, Cx accuracy: less than $\pm 1\%$

(note 2): Cx is not considered pin5 stray capacitance. VCO free-run frequency is affected by stray capacitance of PC board, socket and others. (note 3): The NJM2240 is produced by high frequency wafer process and some of pin may be weak against surge voltage. (note 4): Pin 2 filter must be connected to ground.

TYPICAL CHARACTERISTICS



MEMO

[CAUTION] The specifications on this databook are only given for information , without any guarantee as regards either mistakes or omissions. The application circuits in this databook are described only to show representative usages of the product and not intended for the guarantee or permission of any right including the industrial rights.