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Peripheral LSI's

Type No.	Function	Maximum Ratings (Ta=25°C)	Electrical Characteristics (Ta=25°C)						
			Item	Symbol	Condition	min.	typ.	max.	Unit
MN6049	CMOS Frequency Synthesizer for TV	V_{DD}=−0.3~+9V	Supply Current	I_{DD}	V_{DD}=7V, Without load			15	mA
		V_I=−0.3~V_{DD}+0.3V	Power Consumption	P_{tot}				105	mW
		V_0=−0.3~V_{DD}+0.3V	Input Frequency Upper Limit	f_i	Input sine wave Free running LFI	15.6			MHz
		Topr=−20~+70℃	Input Voltage Swing	V_i		0.7			V_{P-P}
		Tstg=−55~+100℃	Input Current	I_{I1}	V_I=V_{SS}~V_{DD}	−50		+50	μA
		Operating Condition	"H" Level Input Voltage	V_{IH}	PI0~PI3 LDI	3.4		V_{DD}	V
			"L" Level Input Voltage	V_{IL}		V_{SS}		0.8	V
		V_{DD}=7V	Input Current	I_{I2}	V_I=V_{SS}~V_{DD}	−10		+10	μA
		V_{SS}=0V	"H" Level Output Voltage	V_{OH}	I_{OH}=−0.05mA, TMO	6.0			V
		Ta=25℃	"L" Level Output Voltage	V_{OL}	I_{OL}=0.1mA, TMO			0.4	V
			Oscillation Frequency	f_{OSC}	QI, QO		3.58		MHz
MN6142	CMOS PLL Frequency Synthesizer for FM/AM Radio	V_{DD}=−0.3~+10V	Supply Current	I_{DD}	V_{DD}=6V		3	5	mA
		V_I=−0.3~V_{DD}+0.3V	Power Consumption	P_{tot}			15	25	mW
		V_O=−0.3~V_{DD}+0.3V	"H" Level Input Voltage	V_{IH1}	V_{DD}=6V P0~P3 C0~C2 LD	2.4		V_{DD}	V
		P_D=50mW	"L" Level Input Voltage	V_{IL1}		V_{SS}		0.8	V
		Topr=−20~+70℃	Input Current	I_{I1}	V_I=V_{SS}~V_{DD}			±10	μA
		Tstg=−55~+100℃	Input Voltage	V_{I2}	PI	1.0			V_{P-P}
		Operating Condition	Input Current	I_{I2}	PI, V_I=0Vまたは6V	±1	±5	±25	μA
			Input Frequency Upper Limit	f_i	PI, V_{DD}=5.5~6.5V	6			MHz
		V_{DD}=6V	Oscillation Frequency	f_{OSC}	OSC1, OSC2		11.52		MHz
		V_{SS}=0V	"H" Level Output Voltage	V_{OH}	CPO, QO V_{DD}=6V, I_{OH}=−100μA	4.0			V
		Ta=25℃	"L" Level Output Voltage	V_{OL}	CPO, QO V_{DD}=6V, I_{OL}=100μA			0.4	V

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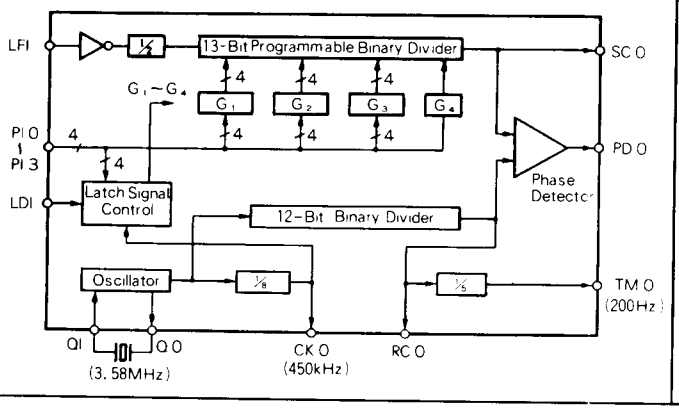
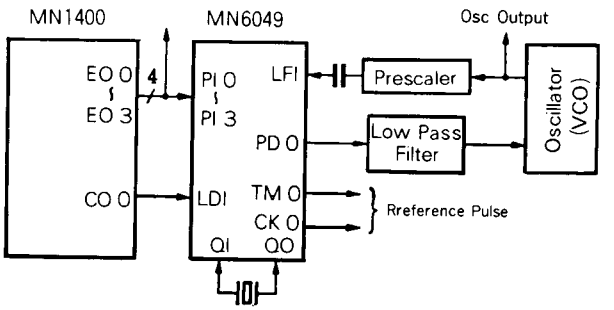
Block Diagram	Application Circuit

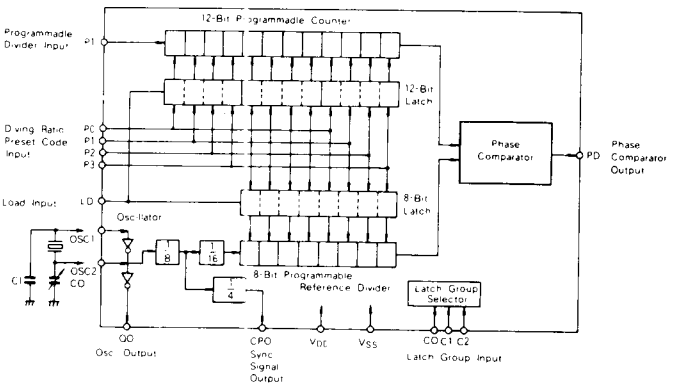
MN6049 (Package L—13,16—Lead Plastic DIL)



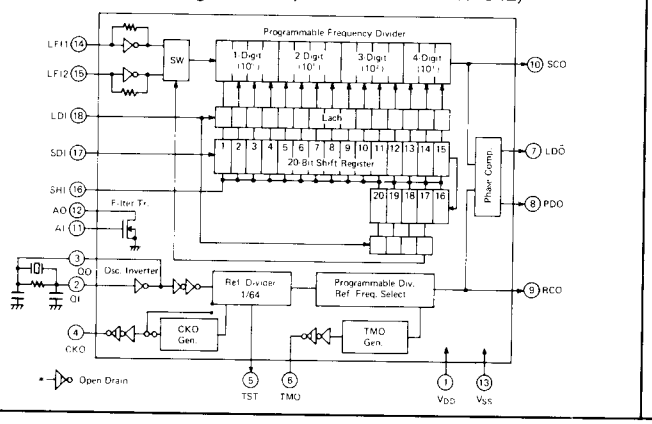


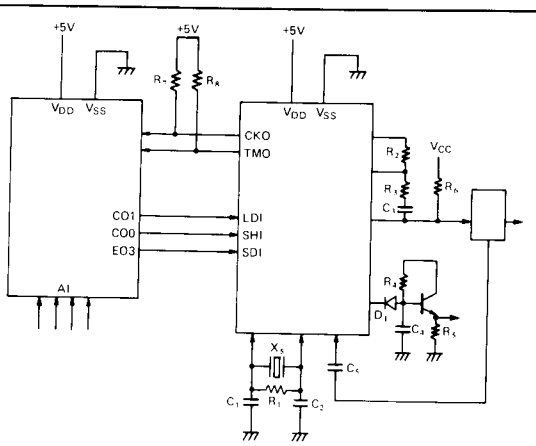
Note) LDI requires a special control signal

MN6142 (Package L—13,16—Lead Plastic DIL)

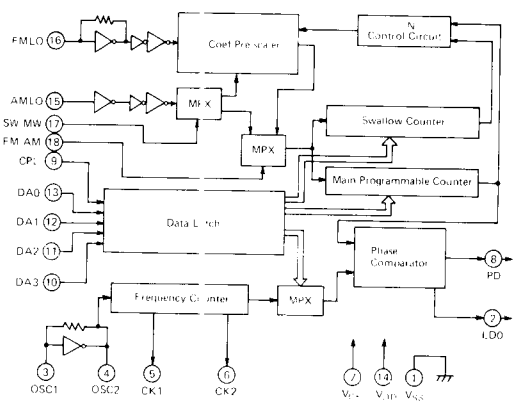


MN6145 (Package L—15,18—Lead Plastic DIL)





MN6147 (Package L—15,18—Lead Plastic DIL)



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