

查询FX707供应商

Consumer Microcircuits Limited

捷多邦 专业PCB打样工厂 24小时极速出货

FX707 Code Selector & Automatic Repeat Encoder

Obsolete Product
- For Information Only -

Publication D/707/2 March 1984

Automatic Repeat Tone Encoder
Multicode Selector
5-Tone Selective Call for Mobile Operation

On-Chip Strobe for Noise Rejection

Only One External Component Required

Interfaces with Thumbwheel Switches

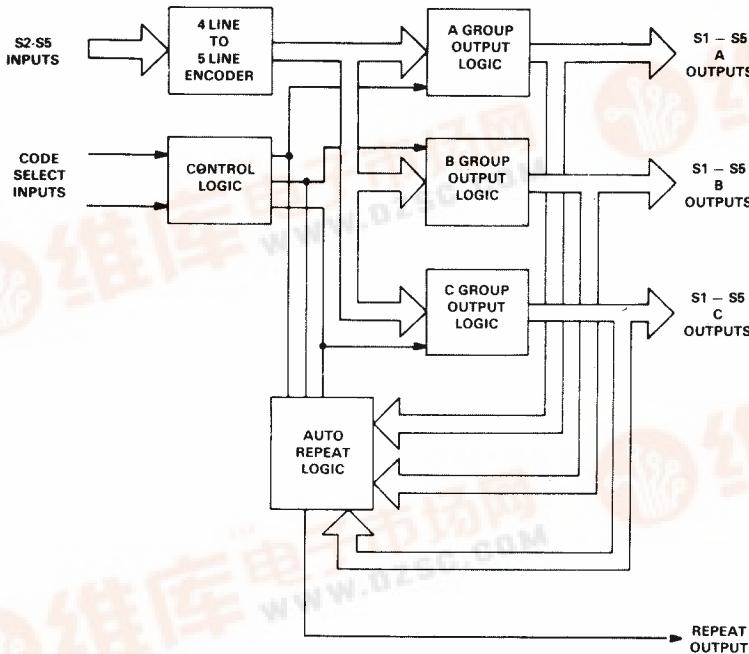


Fig. 1 FX707 Internal Block Diagram

The FX707 is a PMOS monolithic 3-way 5-pole logic switch intended for use with the CML FX407/507/607 5-tone sequential code transceivers. It allows any one of three programmed codes to be selected by applying logic levels to two control pins. The required codes are programmed by linking each of the three sets of five output pins to appropriate digits at the FX407/507/607 tone select inputs, using wire links, thumbwheel switches or other selector means.

In addition to the code select switching, the FX707 contains circuits which recognize codes containing identical consecutive digits and automatically select the repeat tone frequency (R) at correct points in the code sequence. This exclusive feature permits direct

encoding systems. An on-chip strobe generator rejects noise inputs caused by wiring interaction when coding switches are located at a distance from the decoder. Combining the FX707 with an FX407/507/607 transceiver provides a complete 5-tone selective call system capable of vehicle to vehicle, talk through, status transponding and other advanced operating modes with major savings in cost, size and engineering complexity compared with alternative conventional methods.

Only one external component is necessary for correct operation of the FX707. C_R (to ground) must be connected to the R output. The value of C_R must exceed $250 \times$ the maximum possible capacitive loading

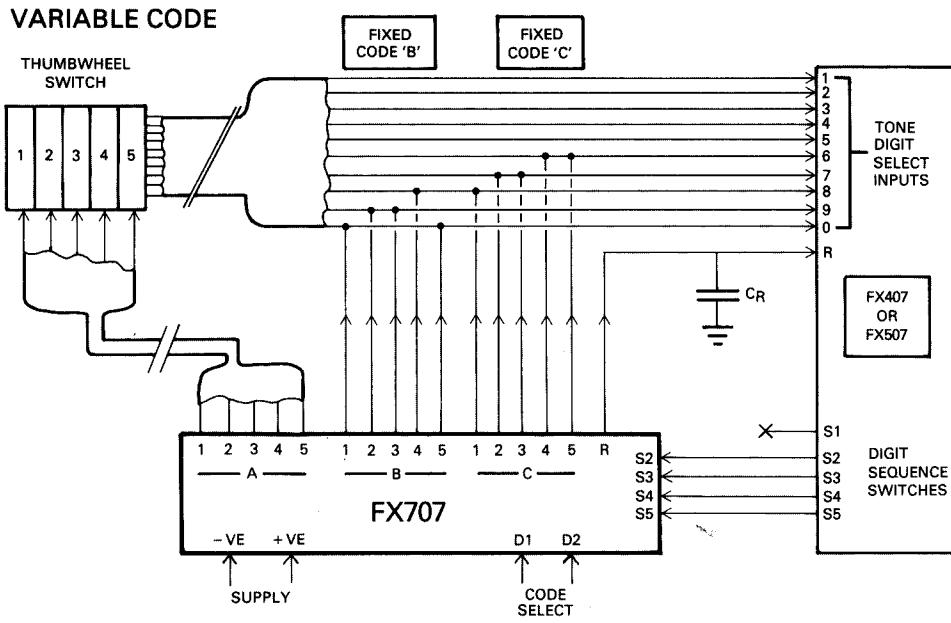
Maximum Ratings

Max. voltage between any pin and +VE supply pin	-20V & +0.3V		
Max. output switch load current	-10mA		
Max. device dissipation at 25°C ambient temperature	400mW		
Operating temperature range	-30°C to +85°C		
Storage temperature range	-55°C to +125°C		

Characteristics

Symbol	Parameter	Notes	Min.	Typ.	Max.	Unit
V _s	Supply voltage	Operating range	10	12	15	V
I _s	Supply current			6		mA

Fig. 2 External Connections



D1	D2	CODE
1	1	A OUTPUTS SELECTED
1	0	B OUTPUTS SELECTED
0	1	C OUTPUTS SELECTED
0	0	OUTPUTS DISABLED

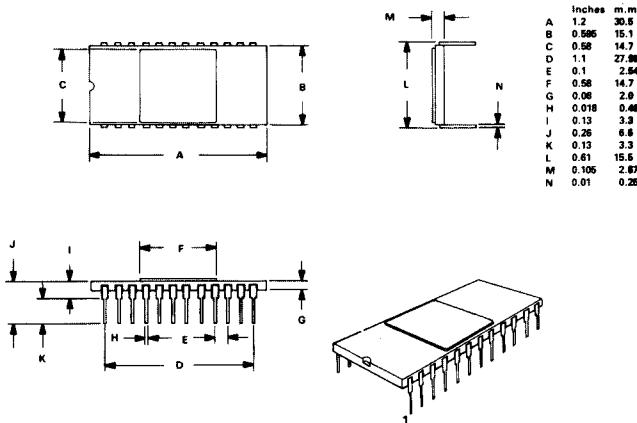
NOTE: '1' = -VE or O/C
'0' = +VE

NOTE: All inputs have pullups approx. 300kΩ to -VE supply.

Fig. 3 Pin Data

24-Pin D.I.L. Ceramic

Pin No.	Function	Pin No.	Function
1	5A	13	-VE Supply
2	4A	14	S5
3	3A	15	S4
4	2A	16	S3
5	1A	17	S2
6	1C	18	+VE Supply
7	2C	19	R
8	3C	20	5B
9	4C	21	4B
10	5C	22	3B
11	Control D1	23	2B
12	Control D2	24	1B



View from pinside

Handling Precautions

The FX707 is a PMOS integrated circuit which includes input protection. However, precautions should be taken to prevent static discharges which can cause damage.

CML does not assume any responsibility for the use of any circuitry described. No circuit patent licences are implied and CML reserves the right at any time without notice to change said circuitry.



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