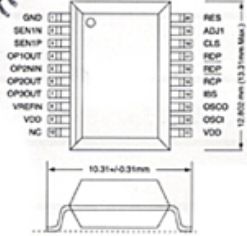
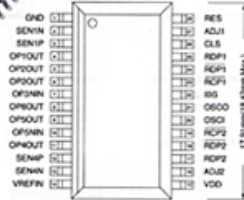


## MRD500 Series

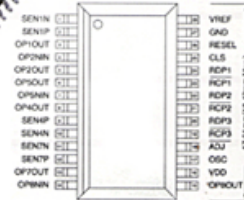
### F2F Decoder ASIC IC (TTL Output)



SOP 20PIN



SOP 28PIN



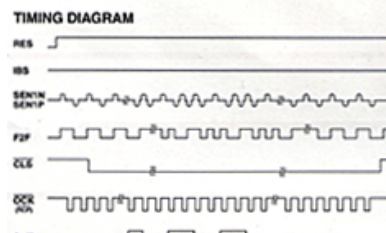
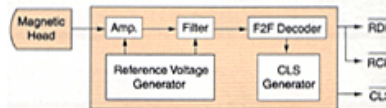
SOP 28PIN

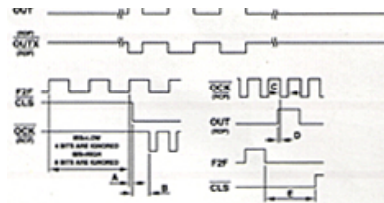
Maximun Ratings				
Symbol	Parameter	Conditions	Ratings	Unit
VCC	Supply Voltage	VDD	-0.5 to +7.0	V
VIN1	Input Voltage	IBS,OSCI,RES,ADJ1,ADJ2	-0.5 to VCC +0.5	V
VIN2	Input Voltage	OP2NIN,OP5NIN	-0.5 to VCC +0.5	V
IO	Output Current	OP1OUT ,OP2OUT, OP3OUT, OP4OUT, OP5OUT ,OP6OUT, OSC02, OUT2, OUT2X, OUT1, OUT1X, OCK1, OCK2	-10 to +10	mA
VID	Differential Input Voltage	SEN1P-SEN1N, SEN2P-SEN2N	-1.0 to +1.0	V
TOPR	Operating Temperature		-30 to +70	°C
TSTG	Storage Temperature		-50 to +140	°C

Recommended Operating Conditions						
Symbol	Parameter	Conditions	Ratings			Unit
			Min.	Typ.	Max	
VCC	Supply Voltage		4.5	5	5.5	V
VIH	Input High Voltage	IBS, RES	VCC-0.5		VCC+0.5	V
VIL	Input Low Voltage	IBS, RES	-0.5	0	0.5	V
IOH	Output High Source Current at VOH=VCC-0.4	OCK1, OUT1, OUT1X, OCK2, OUT2, OUT2X	-1.5			mA
IOH	Output High Source Current at VOH=VCC-0.4	CLS	-0.1			mA
IOL	Output Low Sink Current at VOL=0.4	OCK1, OUT1, OUT1X, OCK2, OUT2, OUT2X, CLS	3			mA
VIN	Differential Input Voltage	SEN1P-SEN1N SEN2P-SEN2N	5		80	mV
FIN	Input Frequency	SEN1P-SEN1N SEN2P-SEN2N	300		13000	Hz
FOSC	Oscillation Frequency			2.3		MHz
ROSC	External resistor between OSC1 & OSC0			30		Kohm
IOPR	Signal Input at 12.6k bps			3.4	4.0	mA
ISBY	No signal input			2.5	3.0	mA
IDLE	Reset = Vss			1.6	2.0	mA

Model Configuration		
Model	Channel	Packing
MRD510	Single	SOP20
MRD520	Dual	SOP28
MRD530	Triple	SOP28





**TIME WRIDTH OF THE A, B, C, D, E:**

- A. APPROXIMATE 2.5 $\mu$ S
- B. ONE DATA BIT
- C. ADJUST ADJ1 & ADJ2 PULL HIGH RESISTER COULD BE ADJUSTED FROM 14 $\mu$ S TO 60 $\mu$ S
- D. APPROXIMATE 13 $\mu$ S
- E. APPROXIMATE 12.5mS AT OSC 2.3MHz

❖ Voltar ❖ Topo