



MITEL®

MH89791
CEPT PCM 30 Transmit Equalizer
 Advance Information

Features

- Used with the MH89790B
- Programmable equalization for different line lengths
- 6dB loop around circuit

Description

The MH89791 is a programmable network for use with a PCM 30 line interface, specifically the MH89790B on The ISDN EXPRESS™ Card. The MH89791 contains transmit equalizer and a 6 dB pad, for external loop around, with 120Ω input and output impedances. It is fabricated in thick film hybrid technology and is 2 inches high by 0.5 inches wide. The MH89791 is designed to interface to 22 gauge/.6 mm twisted pair. Figure 1 shows how the MH89791 is connected to the transmit side of a PCM 30 interface. The seven switches control the distance settings of the equalizer. Ti, Ri, TL, and RL are the inputs and outputs of the 6 dB pad. The 4 pole double throw relay connected to the transformer inputs and outputs shows how the transmit signal is switched between the equalizer for normal operation,

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Pin Connections	
TL	1
TL	2
Ti	3
Ri	4
RL	5
RL	6
TXT	7
EIT	8
EA	9
L1	10
EB	11
EC	12
L2	13
RCHT	14
RCLT	15
TxR	16
EIR	17
SW	18
RCHR	19
RCLR	20

Ordering Information -40°C to 85°C

MH89791 20 Pin SIP Hybrid

and the 6dB pad for loop around. Figure 2 shows the circuit description of the MH89791 while Figure 3 shows the switch settings for the Tx equalizer.

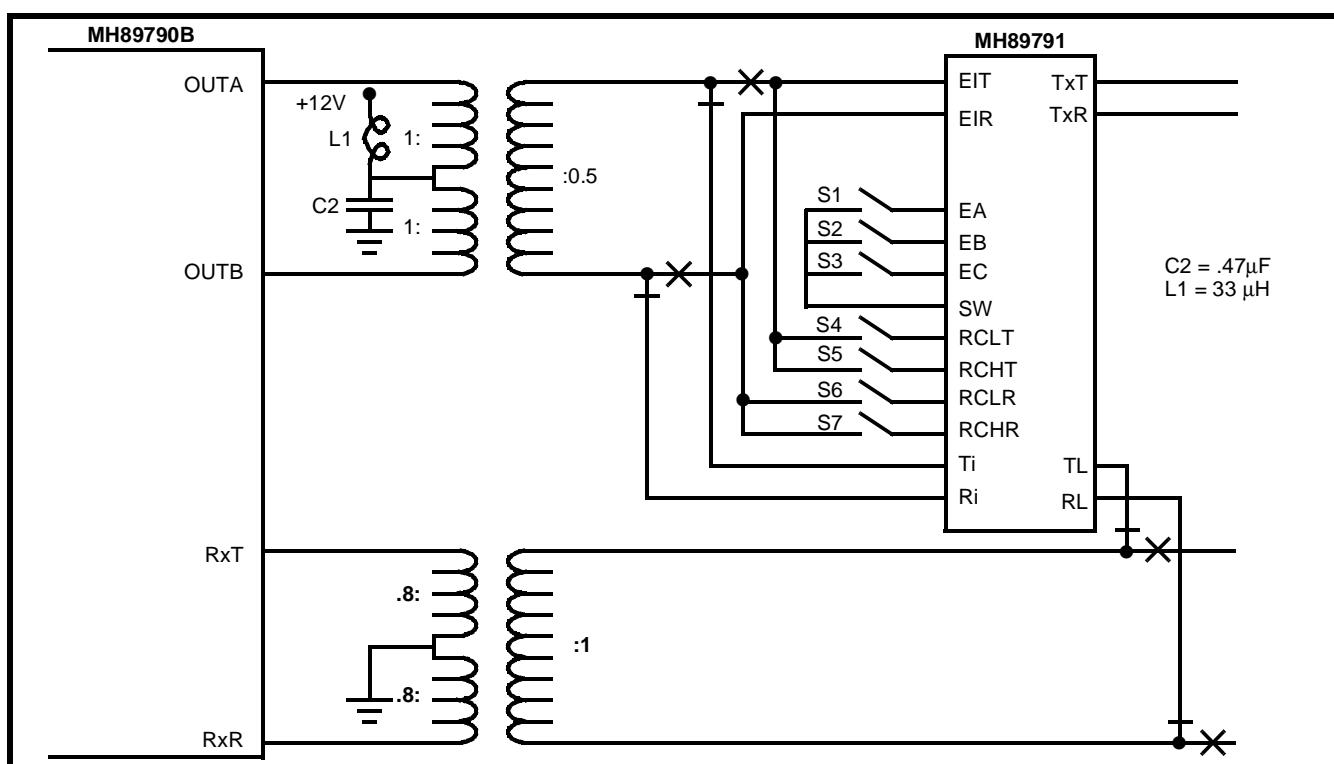


Figure 1 - Connection Diagram

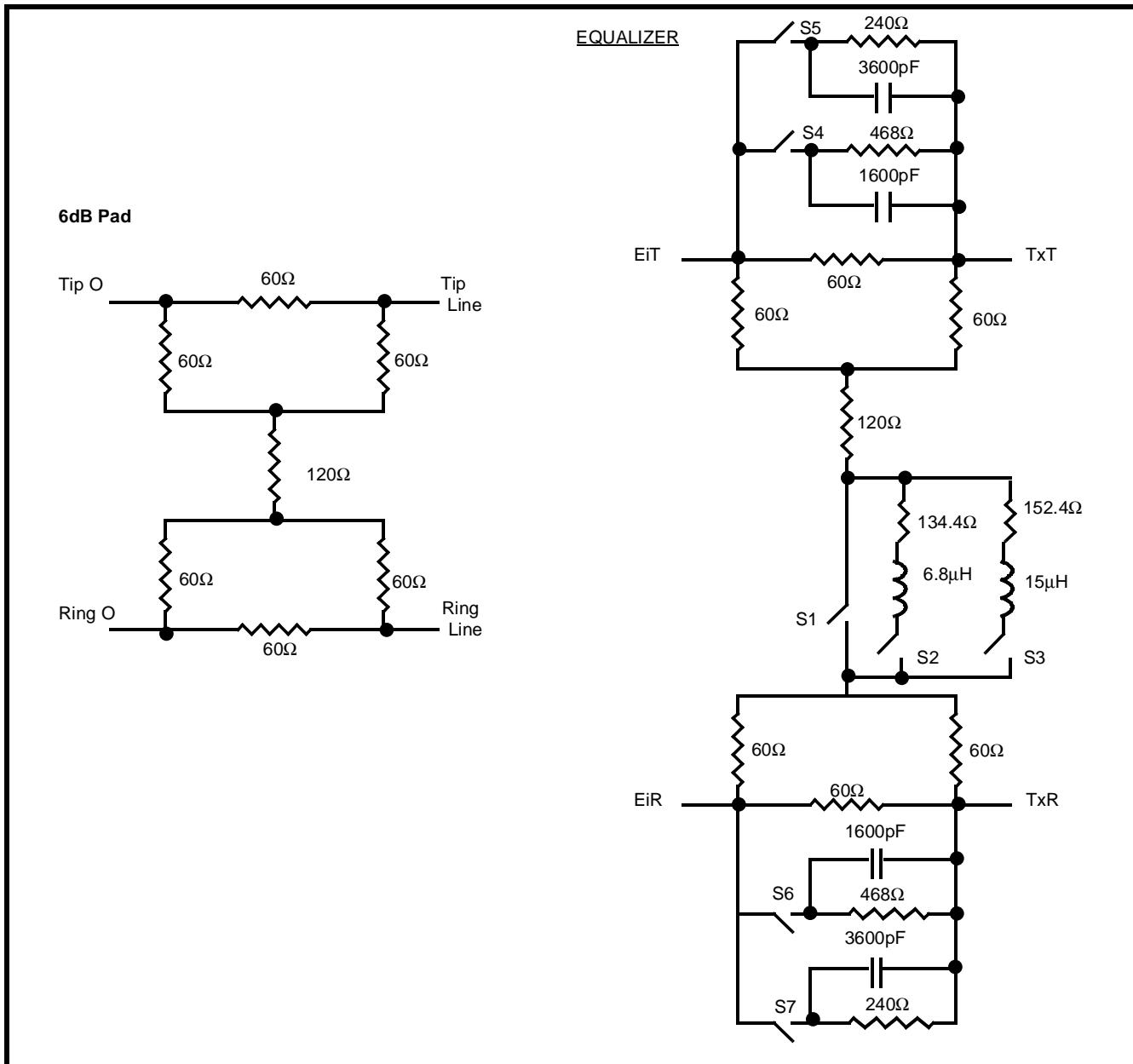


Figure 2 - MH89791 Circuit Description

	S1	X	-	-	X	-	-	X	-	-	-	X	-	-
-=SWITCH OPENED	S2	-	X	-	-	X	-	-	X	-	-	-	X	-
X=SWITCH CLOSED	S3	-	-	X	-	-	X	-	-	X	-	-	-	X
	S4	-	-	-	X	X	X	-	-	-	-	X	X	X
	S5	-	-	-	-	-	-	X	X	X	X	X	X	X
	S6	-	-	-	X	X	X	-	-	-	X	X	X	X
	S7	-	-	-	-	-	-	X	X	X	X	X	X	X
INCREASING EQUALIZATION														
NO EQUALIZATION					INCREASING EQUALIZATION					MAX. EQUALIZATION				

Figure 3 - Switch Settings for Different Levels of Equalization

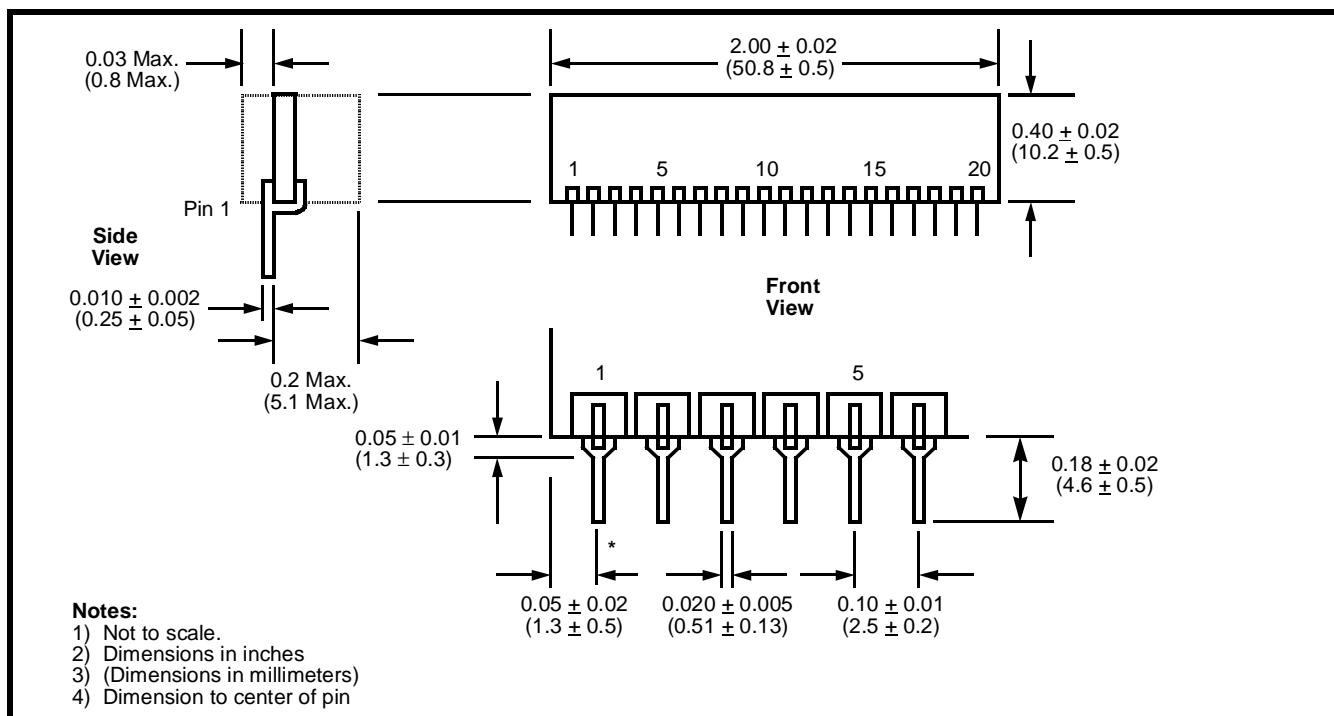


Figure 4 - Mechanical Data

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