

# Table of Contents

## Section 1 Line Card Components

*TP3200/TP3202/TP3204 SLIC-MC Magnetic Compensation SLICs .....	1-3
*TP3070/TP3071 Programmable Codec/Filter COMBO IITM .....	1-11
TP3051/TP3056 Parallel Interface Codec/Filter COMBO™ .....	1-28
*TP3058/TP3059 Microprocessor Compatible COMBO .....	1-39
TP3052/TP3052-1/TP3053/TP3053-1/TP3054/TP3054-1/TP3057/TP3057-1 Monolithic Serial Interface Codec/Filter COMBO Family .....	1-50
*TP3052-X/TP3053-X/TP3054-X/TP3057-X Extended Temperature Monolithic Serial Interface Codec/Filter COMBO Family .....	1-64
TP3064/TP3067 Monolithic Serial Interface Codec/Filter COMBO .....	1-77
*TP3150 Time Slot Assignment Circuit .....	1-90
TP3155 Time Slot Assignment Circuit .....	1-97
TP3020/TP3020-1/TP3021/TP3021-1 PCM Monolithic Codecs .....	1-104
TP5116A/TP5116A-1/TP5156A/TP5156A-1 PCM Monolithic Codecs .....	1-112
TP3040/TP3040-1/TP3040A/TP3040A-1 PCM Monolithic Filter .....	1-119
Definitions and Timing Conventions .....	1-127

## Section 2 ISDN (Integrated Services Digital Network) Components

Introduction to National Semiconductor Basic Access Chip Set .....	2-3
*TP3401 DASL Digital Adaptor for Subscriber Loops .....	2-8
*TP3410 "U" Interface Device .....	2-22
*TP3420 "S" Interface Device .....	2-23
*HPC16040 High Performance Microcontroller .....	2-40
*HPC16400/HPC36400/HPC46400 High Performance Controller with HDLC .....	2-65
ISDN Definitions .....	2-85

## Section 3 Modems

MM74HC942 300 Baud Modem .....	3-3
MM74HC943 300 Baud Modem .....	3-9
*TP3330 Full Duplex 1200 BPS Bell 212A/V.22 Modem with UART .....	3-16
*TP7515 Full Duplex 1200 BPS Bell 212A/V.22 Serial Modem .....	3-34

## Section 4 Analog Telephone Components

TP5088 DTMF Generator for Binary Data .....	4-3
TP5089 DTMF (Touch-Tone) Generator .....	4-7
TP5700A Telephone Speech Circuit .....	4-11

## Section 5 Application Notes

AN-336 Understanding Integrated Circuit Package Power Capabilities .....	5-3
AN-347 MM74HC942 and MM74HC943 Design Guide .....	5-8
AN-349 CMOS 300 Baud Modem .....	5-15
AN-370 Techniques for Designing with Codec/Filter COMBO Circuits .....	5-20
AN-439 TP3200 MC-SLIC Application Guide .....	5-23
AN-450 Small Outline (SO) Package Surface Mounting Methods—Parameters and Their Effect on Product Reliability .....	5-32
AN-466 Improving the Performance of a High Speed PBX Backplane .....	5-42
LB-18 +5V to -15V DC Converter .....	5-47

## Section 6 Reliability of Telecom Devices/Physical Dimensions

Reliability of Telecom Devices .....	6-3
Physical Dimensions .....	6-4
Data Bookshelf	
Authorized Distributors	

\*Devices not covered in last publication