

MOTOROLA
SEMICONDUCTOR
TECHNICAL DATA

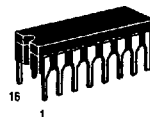
MOTOROLA SC (TELECOM)

MC145414
**Dual Tunable Low-Pass
Sampled Data Filters**

The MC145414 is sampled data, switched capacitor filter IC intended to provide band limiting and signal restoration filtering. It is capable of operating from either a single or split power supply and can be powered-down when not in use. Included on the IC are two totally uncommitted op amps for use elsewhere in the system as I-to-V converters, gain adjust buffers, etc.

- Two General Purpose 5th Order Elliptic Low-Pass Filters
- Low Operating Power Consumption — 30 mW (Typical)
- Power Down Capability — 1 mW (Maximum)
- ± 5 to ± 8 V Power Supply Ranges
- TTL or CMOS Compatible Inputs Using V_{LS} Pin
- Two Operational Amplifiers Available to Reduce Component Count
- Useful in LPC or CVSD Speech Applications
- Passband Edges Tunable With Clock Frequency From 1.25 kHz to 10 kHz

**NOT
RECOMMENDED
FOR NEW DESIGN**



L SUFFIX
CERAMIC
CASE 620



P SUFFIX
PLASTIC
CASE 648

PIN ASSIGNMENT

V_{AG}	1	16	V_{DD}
+A	2	15	A_{in}
-A	3	14	A_{out}
A0	4	13	B_{in}
B0	5	12	B_{out}
-B	6	11	CLK1
+B	7	10	CLK2
V_{SS}	8	9	V_{LS}

ORDERING INFORMATION

MC145414 Suffix Denotes
 L Ceramic Package
 P Plastic Package

BLOCK DIAGRAM
