



DESCRIPTION

PT2258 is a 6-Channel Electronic Volume Controller IC utilizing CMOS Technology specially designed for the new generation of AV Multi-Channel Audio System. PT2258 provides an I²C Control Interface, an attenuation range of 0 to -79dB at 1dB/step, low noise, and high channel separation. Housed in 20 pins, DIP or SOP, PT2258's pin assignments and application circuit are optimized for easy PCB Layout and cost saving advantages.

FEATURES

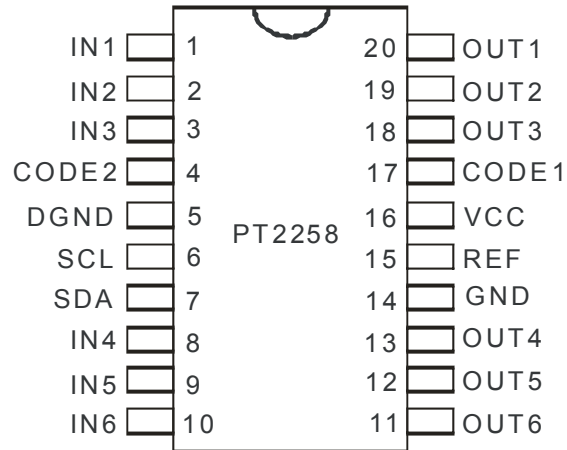
- CMOS Technology
- Low Power Consumption
- Least External Components
- Attenuation Range: 0 to -79dB at 1dB/step
- Operating Voltage: 5 to 9 V
- Low Noise, S/N Ratio>100dB (A-weighting)
- High Channel Separation
- I²C Bus Control Interface
- Selectable Address
- 6-Channel Outputs
- Available in 20 pins, DIP or SOP

APPLICATIONS

- AV Surround Audio Equipment
- Car Audio
- Mini Compo
- Computer Multi-Media Speaker
- Other Audio Equipments

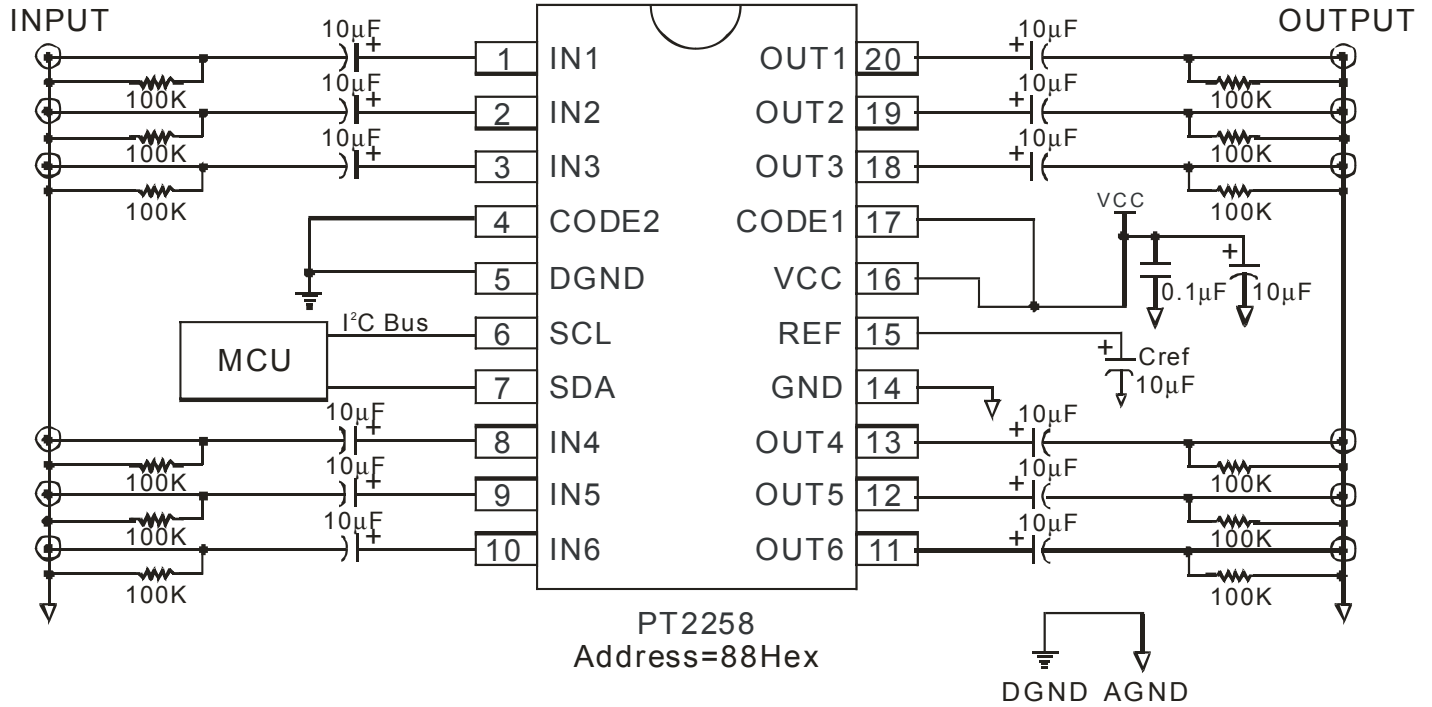


PIN CONFIGURATION





APPLICATION CIRCUIT





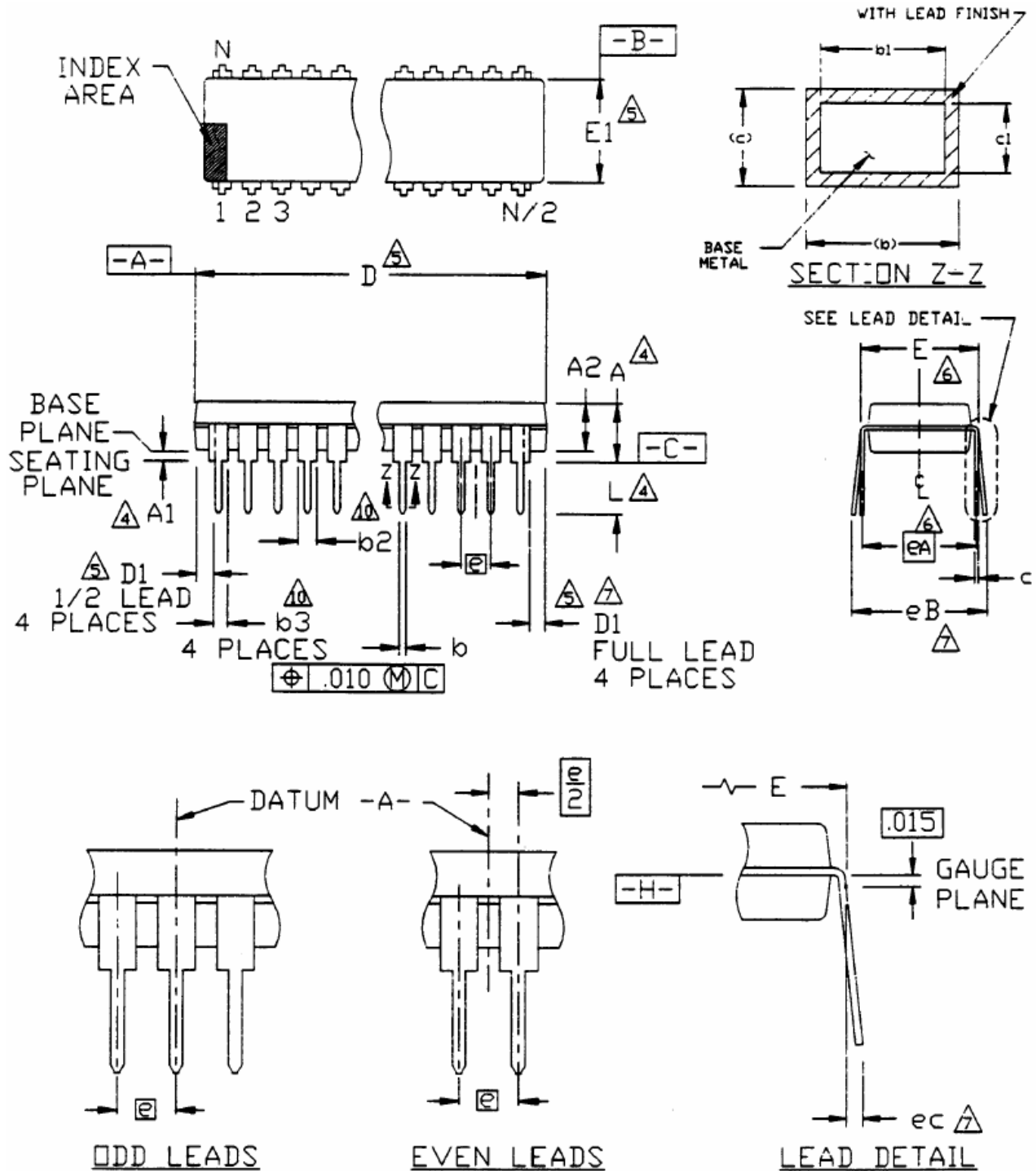
ORDER INFORMATION

Valid Part Number	Package Type	Top Code
PT2258	20 Pins, DIP, 300mil	PT2258
PT2258-S	20 Pins, SOP, 300mil	PT2258-S



PACKAGE INFORMATION

20 PINS, DIP, 300MIL





6-Channel Electronic Volume Controller IC

PT2258

Symbol	Min.	Nom.	Max.
A	-	-	0.210
A1	0.015	-	-
A2	0.115	0.130	0.195
b	0.014	0.018	0.022
b1	0.014	0.018	0.020
b2	0.045	0.060	0.070
b3	0.030	0.039	0.045
c	0.008	0.010	0.014
c1	0.008	0.010	0.011
D	0.980	1.030	1.060
D1	0.005	-	-
E	0.300	0.310	0.325
E1	0.240	0.250	0.280
e	-	0.100 bsc.	-
eA	-	0.300 bsc.	-
eB	-	-	0.430
eC	0.000	-	0.060
L	0.115	0.130	0.150

Notes:

1. All dimensions are in INCHES.
2. Dimensioning and tolerancing per ANSI Y14.5M-1982.
3. Dimension "A", "A1" and "L" are measured with the package seated in JEDEC Seating Plane Gauge GS-3
4. "D", "D1" and "E1" dimensions do not include mold flash or protrusions. Mold flash or protrusions shall not exceed 0.010 inch.
5. "E" and "eA" measured with the leads constrained to be perpendicular to datum \square -C .
6. "eB" and "eC" are measured at the lead tips with the leads unconstrained.
7. N is the number of the terminal positions (N=20)
8. Pointed or rounded lead tips are preferred to ease insertion.
9. "b2" and "b3" maximum dimensions are not include dambar protrusions. Dambar protrusions shall not exceed 0.010 inch (0.25mm)
10. Distance between leads including dambar protrusions to be 0.005 inch minimum.
11. Datum plane \square -H coincident with the bottom of lead, where lead exits body.
12. Refer to JEDEC MS-001, Variation AD.

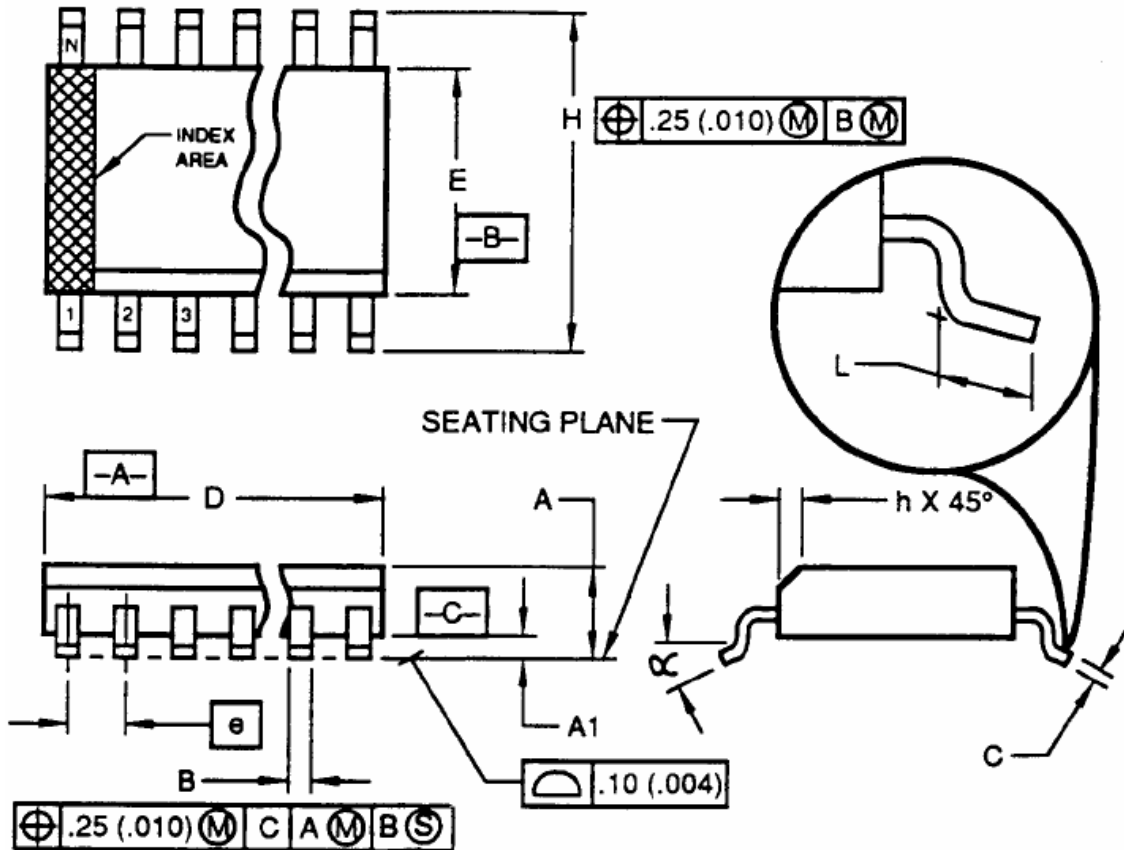
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6-Channel Electronic Volume Controller IC

PT2258

20 PINS, SOP, 300MIL



Symbol	Min.	Nom.	Max.
A	2.35	-	2.65
A1	0.10	-	0.30
B	0.33	-	0.51
C	0.23	-	0.32
D	12.60	-	13.00
E	7.40	-	7.60
e	-	1.27 bsc.	-
H	10.00	-	10.65
h	0.25	-	0.75
L	0.40	-	1.27
α	0°	-	8°



6-Channel Electronic Volume Controller IC

PT2258

Notes:

1. Dimensioning and tolerancing per ANSI Y14.5M-1982.
2. Dimension "D" does not include mold flash, protrusions or gate burrs. Mold Flash, protrusion or gate burrs shall not exceed 0.15 mm (0.006 in) per side.
3. Dimension "E" does not include interlead flash or protrusions. Interlead flash or protrusions shall not exceed 0.25 mm (0.010 in) per side.
4. The chamfer on the body is optional. If it is not present, a visual index feature must be located within the crosshatched area.
5. "L" is the length of the terminal for soldering to a substrate.
6. N is the number of the terminal positions (N=20)
7. The lead width "B" as measured 0.36 mm (0.014 in) or greater above the seating plane, shall not exceed a maximum value of 0.61 mm (0.24 in).
8. Controlling dimension: MILLIMETER.
9. Refer to JEDEC MS-013, Variation AC.

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