

## (d) Production by Manufacturers (laminated ceramic capacitor)

## (1) Volume

(Unit: 100 million pcs.)

Manufacturer	1982	1983	1984	1985 (prospect)
Murata Mfg.	11	21	35	41
T D K	8	17	27	33
Kyocera	6	11	15	18
Matsushita Denshi Buhin	3	6	11	13
Others	1	2	4	5
<b>Total</b>	<b>29</b>	<b>57</b>	<b>92</b>	<b>110</b>

## (2) Value

(Unit: 100 million yen)

Manufacturer	1982	1983	1984	1985 (prospect)
Murata Mfg.	47	86	137	145
T D K	38	77	116	142
Kyocera	17	29	38	45
Matsushita Denshi Buhin	12	23	40	48
Others	11	19	24	40
<b>Total</b>	<b>125</b>	<b>234</b>	<b>355</b>	<b>420</b>

Performance Analysis

In 1984, the market for laminated ceramic capacitor was approximately over 9 billion pieces in volume and 35 billion yen in value. The expanding application of laminated ceramic capacitor resulted in production increase by most manufacturers. However, due to the shortage of supply for the chip type, production of the chip type increased. In turn, this has led to the current shortage of the dip type.

## 2) Piezoelectric Device (Filter, Buzzer)

Materials Used:  
PZT, PLZT, ZrO, Crystal, LiNbO<sub>3</sub>, etc.