

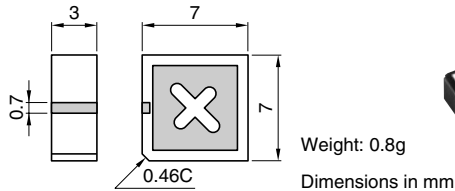
RF Components

Ceramic Patch Antennas

For Bluetooth™ and 2.4GHz Wireless LAN

CABPB0730A(7×7×3mm Type)

SHAPES AND DIMENSIONS



TEMPERATURE AND HUMIDITY RANGES

Operating temperature range	-30 to +85°C
Storage temperature range	-40 to +85°C
Humidity range	0 to 90(%)RH [Maximum wet-bulb temperature: 38°C]

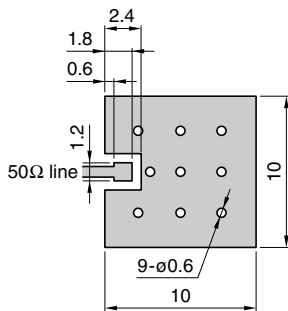
ELECTRICAL CHARACTERISTICS

Center frequency	2442MHz
Band width	85MHz
Return loss	-2.5dB max.[2400 to 2485MHz]
Antenna gain	-1dBi max.[2400 to 2485MHz]
Input impedance	50Ω[2400 to 2485MHz]
VSWR	7 max.

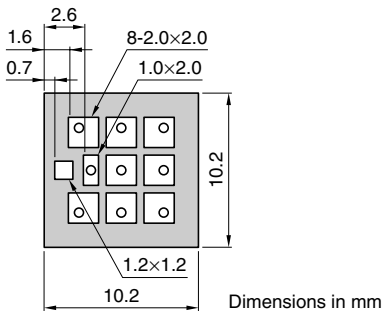
• Evaluated with 30×30mm TDK STD evaluation base.

RECOMMENDED PC BOARD PATTERNS

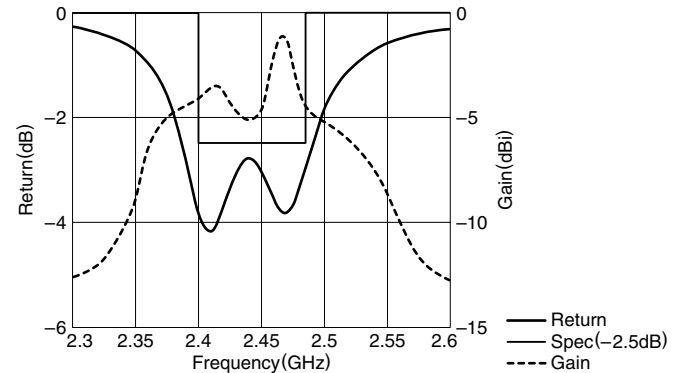
LAND



SOLDER RESIST



TYPICAL ELECTRICAL CHARACTERISTICS RETURN LOSS AND GAIN



• Evaluated with 30×30mm TDK STD evaluation base.

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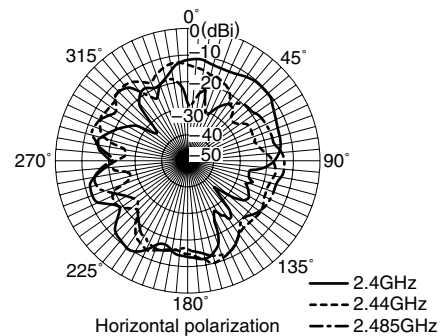
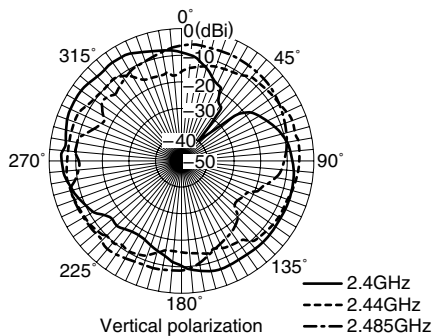
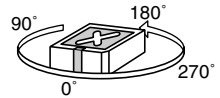
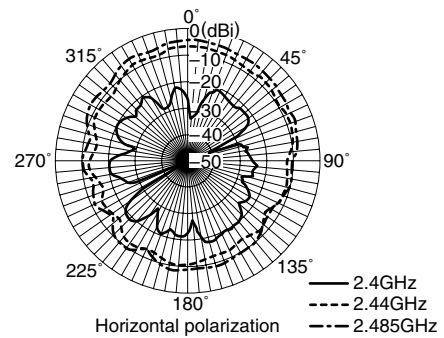
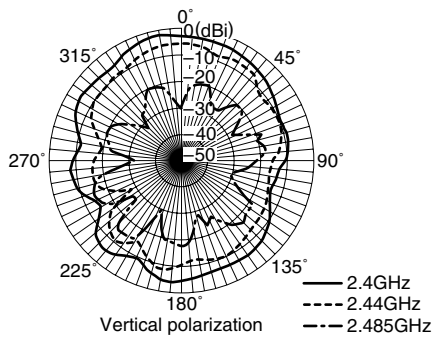
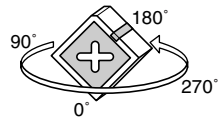
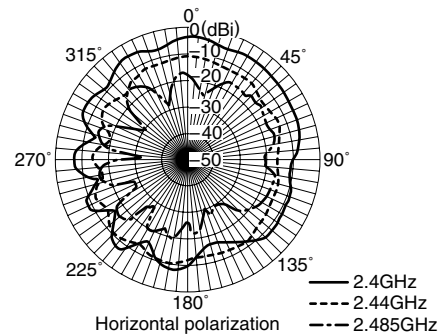
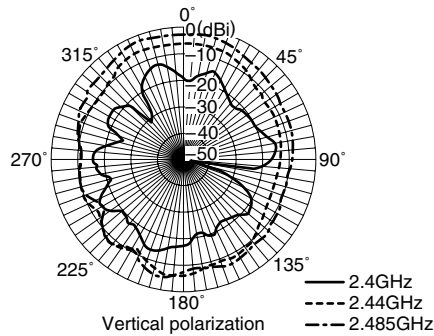
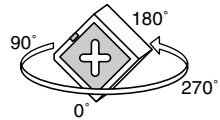
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RADIATION PATTERN

Directivity angle

Vertical polarization

Horizontal polarization



- The radiation pattern is measured by mounting the antenna on 30×30mm TDK STD evaluation base.
- Standard antenna: Standard dipole(Anritsu)
Tx antenna: Horn(Condor Systems)