



MOTOROLA

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SAR Data for i500 Leather Case (kit # NTN8981A)

The Motorola i500 Leather Carry Case with clear plastic cover is shown in photo 1 and is used to enable the radio to operate while being worn on the body. The construction is of soft leather with no metal components; the integral belt clip is constructed entirely of plastic. The following SAR data summary represents the highest measured SAR levels using this leather case and the resultant operational maximum calculated SAR levels. Photo 2 depicts the positioning of the product relative to the phantom during test and the corresponding distances.

Maximum Calculated SAR by Expected Operating Position and Conditions

MEASUREMENT POSITION	HIGHEST MEASURED SAR DEPOSITION	MAXIMUM OPERATIONAL DUTY CYCLE AND MODE	OPERATIONAL MAXIMUM CALCULATED SAR
Abdomen (with leather carry case & audio accy.)	0.16 mW/g	33.33% - with attached accessory cable for remote earpiece/microphone	0.34 mW/g
Abdomen (with leather carry case & data cable)	0.13 mW/g	67.5% - for data mode operation	0.57 mW/g

Highest measured SAR deposition made with radio operating 1/6 multiplexing 16.67% duty cycle.

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Photo 1 - i500 Leather Case (kit # NTN8981A) Rear View



Photo 2 - i500 Leather Case (kit # NTN8981A) Beneath Phantom's Abdomen



Radio with antenna extended in leather carry case/belt clip accessory, ear-piece with microphone audio accessory connected to bottom of radio and thin battery (NTN8970A)

Dim A = Distance from surface of antenna base to phantom surface = 26 mm

Dim B = Distance from middle of antenna to phantom surface = 25 mm

Dim C = Distance from antenna surface tip to phantom = 24 mm

Legend: Lay down full body phantom filled with simulated muscle tissue on Non-RF support fixture and radio affixed to phantom's abdomen.

(+ y) axis is out of the page, toward viewer and (-y) axis is into the page, away from viewer.