

3M™ RFID CD Tag – Technical Data Sheet

35mm O.D. 17mm I.D.

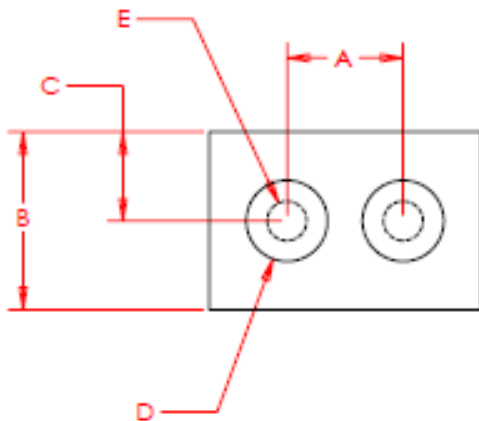
75-0500-8304-9

Description

This tag is provided as circular pressure sensitive label on a silicon paper liner and is applied to hub of a CD or a DVD disk. The tags are wound on a single tag width roll. The integrated circuit is a 13.56 MHz 2048 bit memory design that is ISO 18000-3 Mode 1 compliant. A black security coating masks the antenna. Bad tags are marked.

Dimensions

A	Tag to Tag Pitch	50 mm (2")
B	Web Width	76.6 mm (3")
C	Web edge to label center	38.3 mm (1.5")
D	Tag Outside Diameter	35 mm (1.4")
E	Tag Inside Diameter	17 mm (0.7")
	Tag thickness over antenna (without IC)	0.25 mm (0.01")
	Tag thickness (maximum, with IC)	0.50 mm (0.02")
	Core inside diameter	76 mm (3")
	Maximum roll diameter	185 mm (7.3")



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3M™ RFID CD Tag (continued)

Electronic Specifications

IC	TI Tag-it HF-1 Plus Transponder
Operating Frequency	13.56 MHz
Supported Standard	ISO 18000-3 Mode 1, ISO 15693-3
Read/Write Cycles	Unlimited number of read cycles and up to 100,000 write cycles.
Read Rate	Up to 50 tags per second (dependent on application).
Anti-collision	Yes - Linear Algorithm
Memory Format	2048-bits programmable read/write
Read Range	Dependent on reader power and reader antenna
Data Rate	26 kb/s as per ISO 18000-3 Mode 1 Specification

Material Specifications

Face Material	Opaque Thermal Transfer Paper
Adhesive	3M Acrylic General Purpose Adhesive
Adhesive PH	6.0 to 7.5
Antenna	Aluminum
IC to antenna construction	Chip bonded to antenna with Anisotropic Conductive Film adhesive
Tag base material	PET (Polyethylene terephthalate)

General Specifications

Operating temperature	-20 C to 70 C (-4 F to 158 F)
Storage temperature	15 C to 25 C (59 F to 77 F) and at 20% to 70% relative humidity
Shelf life	2 year
Reliability testing	65 C(149 F)/95%RH for 15 weeks
ESD voltage immunity	+/- 2 kV peak
Bending diameter	>50 mm

Delivery and Packaging Specifications

Tags per roll	1000
Rolls in package	1
Winding	Tags out
Inspection and delivered tags	100% inspected, 1000 good tags per roll
Bad Tags Marked	Yes
Warranty	Please contact the local 3M sales representative for warranty information

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