

# 3M™ RFID D4C Label – Technical Data Sheet

## 58 mm x 58 mm (2.3" x 2.3")

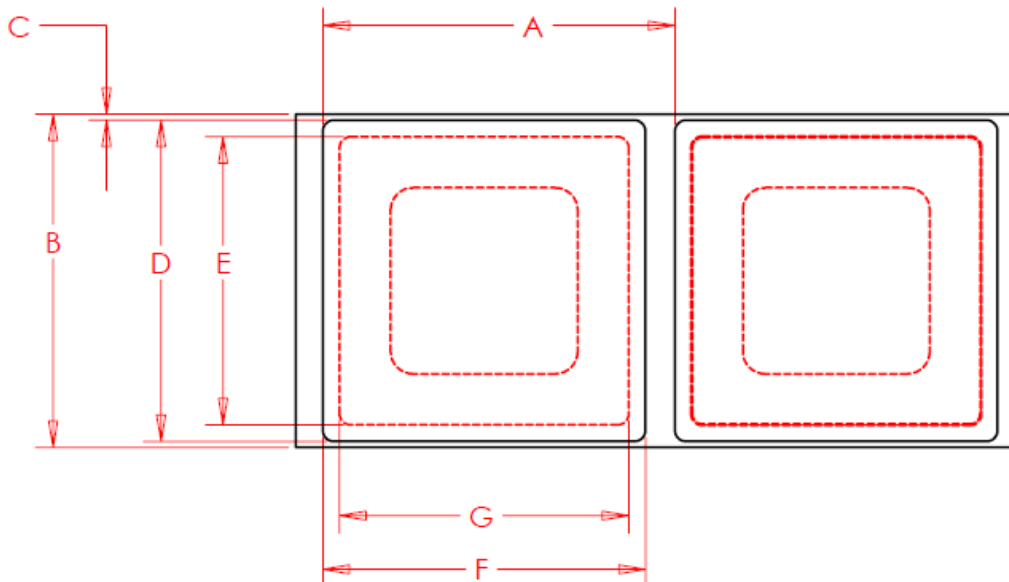
### 75-4700-2660-2

## Description

This RFID label is provided as a 58 mm square pressure sensitive label on a silicon paper liner. The labels are wound on a single label width roll. The integrated circuit operates at 13.56 MHz in compliance with ISO 18000-3 Mode 1 and ISO 15693. The integrated circuit incorporates a 1024 bit memory.

## Dimensions

A	Label to label pitch	63.5 mm (2.5")
B	Web width	63.5 mm (2.5")
C	Web edge to label	1.1 mm (0.04")
D	Label width	58 mm (2.3")
E	RFID antenna width	52 mm (2.0")
F	Label length	58 mm (2.3")
G	Antenna length	52 mm (2.0")
	Label thickness over antenna (without IC)	0.25 mm (0.01")
	Label 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 D4C Label

## Electronic Specifications

<b>Integrated circuit</b>	NXP ICODE SLI - SL2 ICS20
<b>Operating frequency</b>	13.56 MHz
<b>Supported standards</b>	ISO 18000-3 Mode 1, ISO 15693-3
<b>Read/Write cycles</b>	Unlimited number of read cycles; up to 100,000 write cycles
<b>Read rate</b>	Up to 50 labels per second – dependent on application
<b>Anti-collision</b>	Yes - Linear Algorithm
<b>Memory format</b>	1024 bits – 896 bits user programmable
<b>Read range</b>	Dependent on reader power and reader antenna
<b>Data rate</b>	26 kb/s per ISO 18000-3 Mode 1 Specification

## Material Specifications

<b>Face material</b>	Opaque transfer paper
<b>Adhesive</b>	3M Acrylic Adhesive
<b>Adhesive PH</b>	6.0 to 7.5 pH units
<b>Antenna</b>	Copper
<b>Integrated circuit connection to antenna</b>	Integrated circuit ultrasonically welded to Flip Chip Package; Flip Chip Package mechanically crimped to antenna
<b>Antenna base material</b>	PET (Polyethylene terephthalate)
<b>Black security coating</b>	No
<b>Printability</b>	Thermal transfer printable – Zebra Technologies Corporation TLP2844-Z

## General Specifications

<b>Operating temperature</b>	-20 C to 70 C (-4 F to 158 F)
<b>Storage temperature</b>	15 C to 25 C (59 F to 77 F) and 40% to 60% relative humidity
<b>Storage life</b>	1 year – label on liner
<b>Reliability testing</b>	65 C (149 F) / 95%RH for 15 weeks
<b>ESD voltage immunity</b>	+/- 2 kV peak
<b>Bending diameter</b>	>60 mm, tension less than 10 N

## Delivery and Packaging Specifications

<b>Labels per roll</b>	1000
<b>Rolls in package</b>	3
<b>Winding</b>	Label face out
<b>Inspection and delivered labels</b>	100% inspection, 1000 good labels per roll
<b>Bad labels marked</b>	No
<b>Warranty</b>	Please contact your local 3M sales representative for warranty information

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