



COMPONENT SPECIFICATION

APPROVED SUPPLIERS

Manufacturer	Address/Telephone	805-626	Manufacturer's Part No.
Kathrein Incorporated	Scala Division P.O. Box 4580 Medford, OR 97501 (541) 779-6500	-001 -002	Model 25-578 Model 25-577

1.0 Scope: This specification describes the requirements for a 6 dB gain, circular polarized antenna as follows:

<u>Part No.</u>	<u>Application</u>	<u>Frequency</u>	<u>Front-to-Back Ratio</u>	<u>Connector</u>
-001	RFID Tag Reader	865-928MHz	greater than 20 dB	Rev Sex N
-002	RFID Tag Reader	865-928MHz	greater than 20 dB	Std Sex N

2.0 Quality Assurance: Intermec Receiving Inspection reserves the right to use AQL sampling techniques when inspecting a lot.

REVISION HISTORY

Rev.	File No.	Description of Change	Date	Approved
A	C4260	Release	5/27/04	J S
B	C4383	Add -002 part, Revise ¶1.0 & ¶6.3	8/25/04	J S

REVISION LEVEL	B	B	A																						
SHEET NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
COMPONENT ENGR.	DATE		Intermec Technologies Corp.											TITLE											
J. McROBERTS	5/14/04													RFID ANTENNA, 900 MHz, 100 W, +6 dB											
COGNIZANT ENGR.	DATE		550 Second Street S.E.											DRAWING NO.											
J. JOHNSON	- - -		Cedar Rapids, IA 52401											805-626-0XX											
APPROVED	DATE		Telephone No. (319) 369-3100											Sheet 1 Of 3											
K. VORHIES by JS	5/27/04		Facsimile No. (319) 369-3453																						

3.0 Packaging: All antennas will be packaged in containers capable of protecting them from damage in common carrier shipping and handling.

4.0 Markings: Each container will be labeled or otherwise marked with the manufacturer's name or trademark, and the part number designation. Major shipping cartons will be marked with the Intermec part number.

5.0 Antenna Specifications:

5.1 Frequency: 865 MHz to 928 MHz

5.2 Antenna Gain: 6 dBi

5.3 Axial Ratio: Not specified

5.4 Front to Back Ratio: >20 dB

5.5 H-plane Beam Width: 90° (half-power)

5.6 E-Plane Beam Width: 70° (half-power)

5.7 Downtilt: 0°

5.8 VSWR: 1.5 max. over full frequency range

5.9 Power Rating: 100 Watts maximum input (@50°C)

5.10 Polarization: Vertical

5.11 Nominal Impedance: 50 Ohms

5.12 Intermodulation (2x20w), IM3: -140dBc

6.0 Mechanical Ratings:

6.1 Radome Material: Pulltruded fiberglass, gray color

6.2 Mounting Hardware: Stainless steel

6.3 Coaxial Connector: -001 part, reverse polarized N style jack
-002 part, standard polarized N style jack

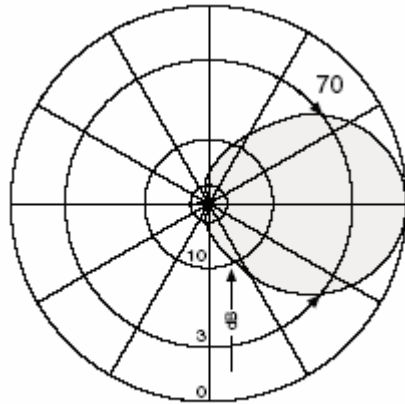
6.4 Windload: 120 MPH (200 kph)

6.5 Ambient Operating Temperature: Not specified

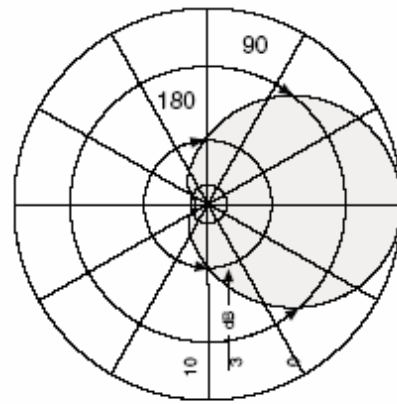
6.6 Storage Temperature: Not specified

6.7 Weight: 3.3 lb. (1.5 kg)

7.0 Radiation Patterns:



Horizontal pattern



Vertical pattern

8.0 Outline Drawing:

