



(4.4-6.8) GHz, C-Band Spiral Antenna, P/N: 1S-ISM58R-XS-1

1" Dia. x 1" High Configuration



ISO 9001:2008/FAA Approved Facility

Antenna Mounts/Adapters: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501, USA . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . <http://www.antcom.com>

(0.8-3)GHz Spiral Antenna
5.9in Dia x 1.7in high

(0.8-6) GHz Spiral Antenna
4.1in Dia x 1.7in high

1S-ISM58R-XS-1

SMA FEMALE
(TNC OR N BULKHEAD IS ALSO AVAILABLE)

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C-BAND ANTENNA
P/N: 1S-ISM4858-XS-1
S/N: DEMO. wt. 0.5oz.
Antcom Corporation
Torrance, CA, USA

Ø 1.00 [25.40]

.83 [21.16]

.40 [10.16]

LNA:
R: RHCP
L: LHCP

CABLE'S LENGTH: X: NO CABLE T: TNC (Optional Bulkhead) M: WITH MAG. MOUNT S: SMA # : CABLE LENGTH (IN) N: N (Optional Bulkhead) R: RIGHT ANGLE CON. P: PIN; M: MCX

REVISIONS		DATE	APPROVED
ZONE	REV	DESCRIPTION	

SPECIFICATIONS

ELECTRICAL:

FREQUENCY: (4400-6800) MHz
 PATTERN: HERMISPHERICAL
 POLARIZATION: RHCP (P/N:1S-ISM58L-XS-1 FOR LHCP)
 ANTENNA GAIN : 3.0 dBic
 BEAM WIDTH: 80°
 VSWR: 2.0:1
 OUTPUT IMPEDANCE: 50 Ω
 POWER HANDLING: >50 watts

MECHANICAL:

SIZE: DIA.: 1.00 in. [25.40 mm]
 HEIGHT: 0.83 in. [21.16 mm]
 WEIGHT: 0.5 oz. (14.17 g)
 FINISH: TOP: SKYDROL RESISTANT POLYURETHANE ENAMEL
 HOUSING: IRIDITE PER MIL-C-5441

MATERIAL: 6061-T6 ALUMINUM ALLOY HOUSING
 THERMOSET PLASTIC RADOME, UV, ABRASION AND SKYDROL RESISTANCE

CONNECTOR: SMA FEMALE
 (TNC OR N BULKHEAD IS ALSO AVAILABLE)

ENVIRONMENTAL:

TEMPERATURE: -67°F TO +185°F [-55°C TO +85°C]
 ALTITUDE: 70,000 ft.
 VIBRATION: >30 G's
 LEAKAGE: HERMETICALLY SEALED

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: FAA TSO-C144, DO-160D, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, AND MIL-STD-810

QUANTITY	REQD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO
-2	-1						1

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 FRACTIONS DECIMALS ANGLES
 ± 1/64 .005 .015 ± 1°
 .xxx± .005

TOLERANCE SYM PER ANSI Y14.5
 REMOVE ALL BURRS
 BREAK EXTERNAL EDGES .005 TO .015
 FILLETS R .005 TO R .030
 SCREW THREADS PER MIL-S-8879
 DIA'S ON A COMMON 2nd .005
 MACHINED SURFACES 125

DO NOT SCALE DRAWING

DRAWN: _____
 CHECKED: _____
 ENGINEER: _____
 APPROVED: S. HUYNH
 Sep-19-01
 CAD FILE NO: _____

ANTCOM CORP. TORRANCE, CALIFORNIA
 OUTLINE DRAWING
 ISM/C-BAND SPIRAL
 ANTENNA

SIZE: D CASE NO: 3CVE1 DRAWING NO: 1S-ISM58R-XS-1 REV: -
 SCALE: 1/1 SHEET 1 OF 1