

Part No:

HAD-2250-H1B-02



SMA Female Dual Band Blade Antenna, S-Band (2.20 - 2.50 GHz) , C-Band (4.40 - 4.49 GHz)

Features

- **Low SWaP Design:** Aerodynamic profiles reduce drag, extending UAS flight times while maintaining structural integrity.
- **Broadband Performance:** Omnidirectional coverage supports real-time data transmission, with patterns optimized for small ground planes.
- **Durability and Compliance:** Rugged radomes protect against environmental stressors; NDAA-compliant materials ensure eligibility for U.S. government contracts.

The HASCO **HAD-2250-OH1B-02** is an SMA Female Blade Antenna that operates within the S-Band (2.20 - 2.50 GHz) and C-Band (4.40 - 4.49 GHz).

HASCO offers a versatile family of blade antennas, each engineered for aerodynamic efficiency, durability, and seamless integration. All models feature SMA-F connectors, VSWR $\leq 2.0:1$, azimuth omnidirectional coverage, elevation patterns similar to a quarter-wave monopole on small ground planes, 1-3 dBi peak gain, and 20W CW power handling. Weights range from 0.43 oz (15.3 g) to 1.25 oz (35.1 g), minimizing impact on UAS flight dynamics.

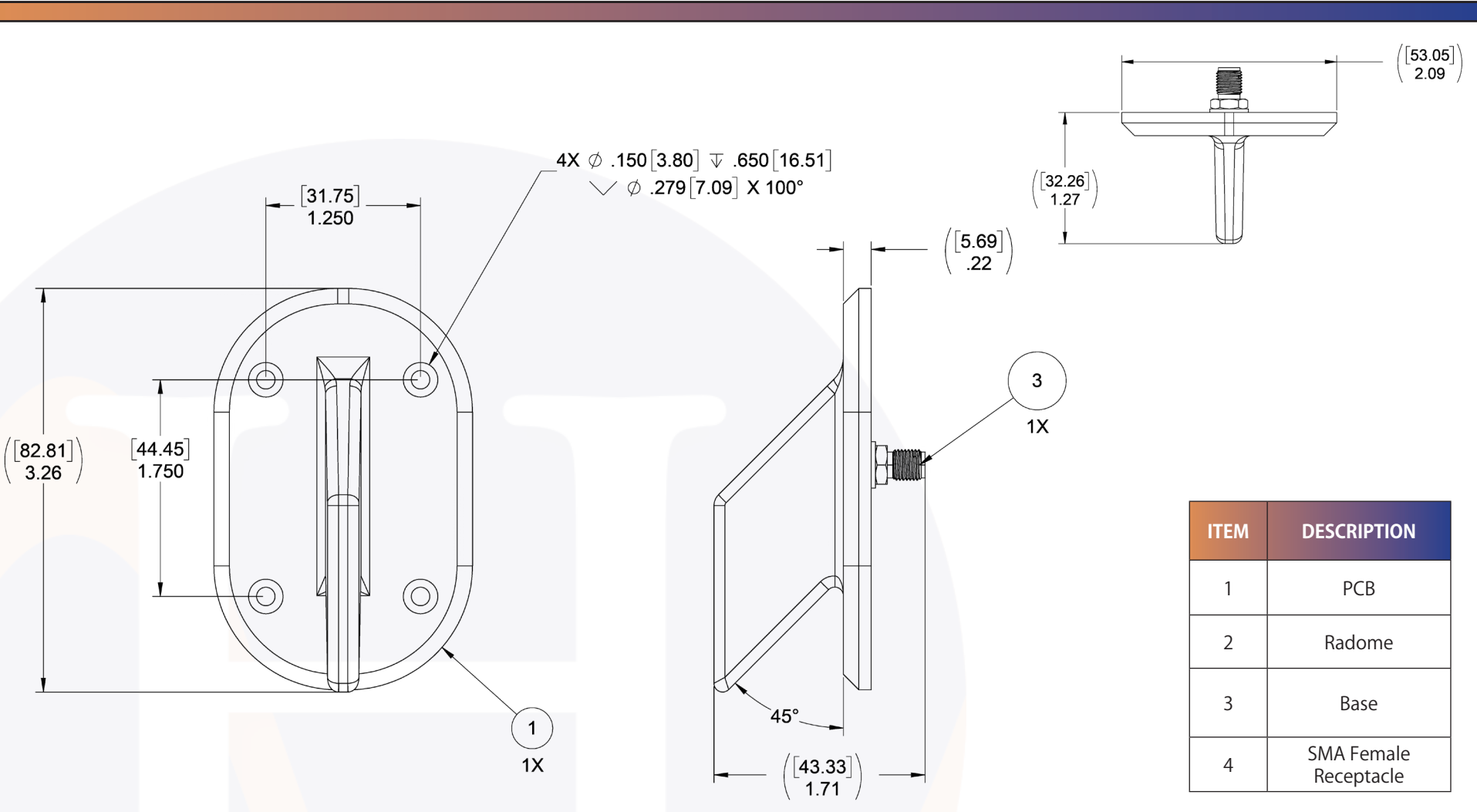
Electrical

• Impedence	50 Ω
• Frequency Range	2.20 - 2.50 GHz (S-Band) and 4.40 - 4.49 GHz (C-Band)
• VSWR	2.0:1 Max
• Azimuth	Omnidirectional
• Elevation	Same as quarter wave monopole on small ground
• Gain	1 - 3 dBi Peak
• Power	20 Watts, CW

Mechanical

• Height	3.26 inch (82.81mm)
• Base Width	1.750 inch (44.45mm)
• Weight	1.2 oz (34.0 g)
• Mount	4-Hole

SMA Female Dual Band Blade Antenna, S-Band (2.20 - 2.50 GHz) , C-Band (4.40 - 4.49 GHz) | Outline Drawing



ITEM	DESCRIPTION
1	PCB
2	Radome
3	Base
4	SMA Female Receptacle

LTR	DESCRIPTION	DATE	APPR.	DRAWN BY: NS	REVIEWED BY: JS
-	RELEASE	1/25	TC		APPROVED BY: TC
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MATERIALS: SEE DATA SHEET	CAGE CODE: 0T8L4	SCALE: N/A	SIZE: A
FINISHES: SEE DATA SHEET	PART NO./DRAWING NO. HAD-2250-H1B-02		REV: -