

GLE/ABA-100-C

Airborne C-band Blade Antennas for Telemetry & Data-Links

Overview

GLE/ABA-100-C is a series of high performance and high temperature, blade antennas for telemetry and data-link applications on civil and military aircrafts.

These antennas, available for C band, 4.40 GHz ÷ 5.15 GHz, have omni-directional pattern over the entire frequency range.

Are also available blade configurations for other C band frequency ranges and for UHF, L, S, X, Ku bands.

Designed as lightweight, low profile, low drag antennas are ideally suited for high performance supersonic aircrafts.



Specifications

Electrical

Frequency	P/N for SMA Connector	P/N for TNC Connector
4.40 ÷ 5.15 GHz	GLE/ABA-100-C-4.40-5.15-S-X	Not Available
Radiation Pattern / Polarization	Omni-directional / vertical	
Antenna Gain	2 to 5 dB	
VSWR	< 2.0:1.0	
Output Impedance	50 Ω	
Power Handling	300 Watts	
DC Grounding	Yes, Lightning Protection	

Environmental

Temperature	-65°C to +600°C [-85°F to +1,100° F]
Altitude	≥ 21,000 m [≥70,000 ft.]
Vibration	≥ 30 G's

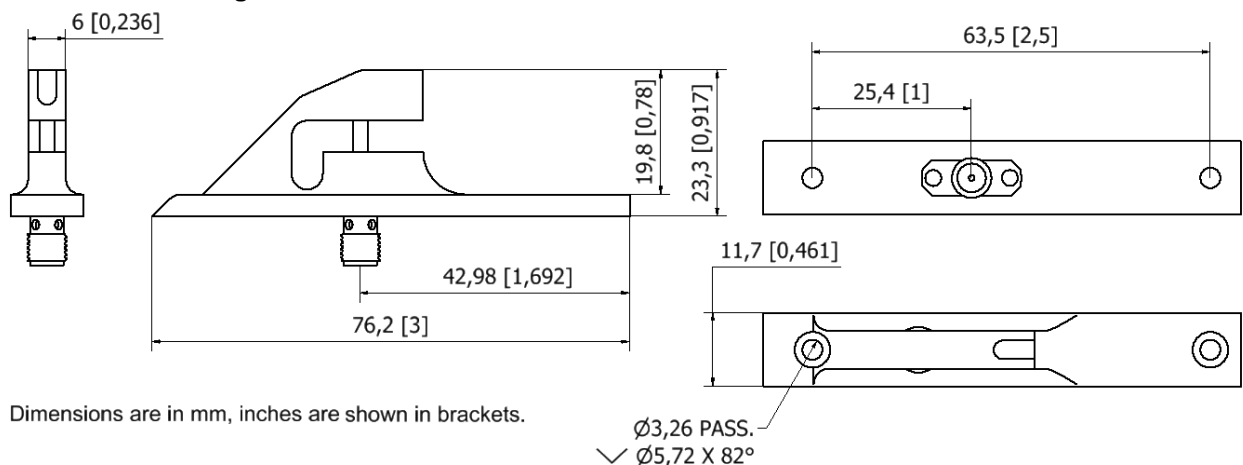
Federal & Military Specifications

Design to	FAA TSO-C144, DO-160D, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455
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Mechanical

Size	Width 11.43 mm [0.45 in.], Length 76.20 mm. [3.00 in], Height 22.99 mm [0.90 in.]	
Weight	Approx 15 grams [approx .53 oz.]	
Finish	Yellow Irite per MIL-C-5541F, Type 1 Class 1A	
Material	6061-T6 Aluminium Alloy Base	
Connector	SMA Female	
Colour and related P/Ns	Colour	P/N
	Gloss White #17925 per FED-STD-595B;	GLE/ABA-100-C-4.40-5.15-S-1
	Lusterless Gray #36320 per FED-STD-595B;	GLE/ABA-100-C-4.40-5.15-S-2
	Olive Drab Green #34031 per FED-STD-595B;	GLE/ABA-100-C-4.40-5.15-S-3
	Lusterless Black #37038 per FED-STD-595B	GLE/ABA-100-C-4.40-5.15-S-4

Mechanical Drawing



Due to continuous developments, specifications are subject to change without prior notice.

This product is not intended for applications whose its failure to perform can be expected to cause damages to properties and/or persons and/or injury to human life.