

D-Puck

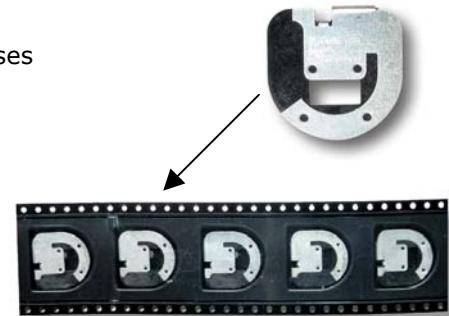
Model Number:
WID2452

Internal Antenna – Surface Mount

Specifications:

- Tape and reel packaging for high volume pick-and-place manufacturing processes
- Planar Inverted F Antenna (PIFA) requires ground plane to radiate efficiently

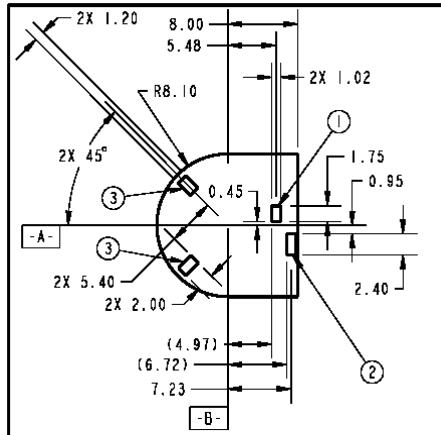
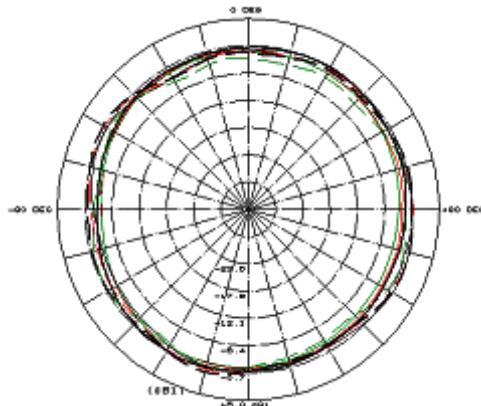
Frequency Ranges	2.4 - 2.5 GHz	5.15 - 5.875 GHz
Gain	>3 dBi	>4 dBi
Polarization	Linear	
Impedance	50 ohms	
VSWR	<2.5:1	
Dimensions (L x W x H)	16 x 16 x 6 mm	
Weight	2 g	
Carrier Material	Black color resin	



Connectors:

Model #	Part #	Description	Connector
WID2452	CAF94400	Tape and Reel	N/A
WID2452-SM	CAF94377	Eval PCBA	SMA-female Panel

Azimuth:
Total Gain



PCB FOOTPRINT LAYOUT
SCALE 2

VSWR

1. Feed pad. Provide 50-ohm signal to pad. Isolate feed pad from ground as required to provide 50-ohm signal at top mounting surface. Matching network components (Pi or L type) will be required on the input feed line.
2. Ground pad.

Elevation:
Total Gain

Specifications subject to change without notice.

D-Puck a - 5/7/04



Laird's D-Puck antenna is a cost-effective, small-scale metal antenna designed for maximum durability. This vertically polarized antenna has a gain of >3 dBi at 2.4-2.5 GHz and >4 dBi at 5.15-5.875 GHz. The D-Puck is specifically designed to be embedded inside devices for aesthetically pleasing integration with high durability.

FEATURES AND BENEFITS

- Tape and reel packaging for high volume pick-and-place manufacturing
- RoHS Compliant (2011/65/EU)
- Planar Inverted F Antenna (PIFA) requires ground plane to radiate efficiently

ELECTRICAL SPECIFICATIONS

Operating Frequency (MHz)	2400-2500	5150-5875
Gain (dBi)	>3	>4
Impedance (ohms)	50	
VSWR		<2.5:1
Polarization		Vertical

MECHANICAL SPECIFICATIONS

Dimensions (diameter x height) – mm (in.)	16.0 x 16.0 x 6.0 (0.63 x 0.63 x 0.24)
Weight – g (oz.)	2 (0.07)
Carrier Material	Black color, resins

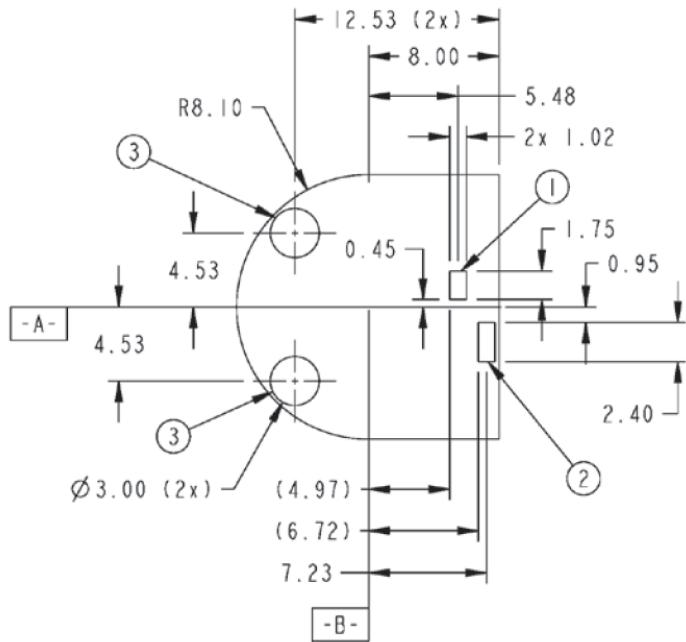
ENVIRONMENTAL SPECIFICATIONS

Hazardous Materials Compliance	RoHS compliant (2011/65/EU)
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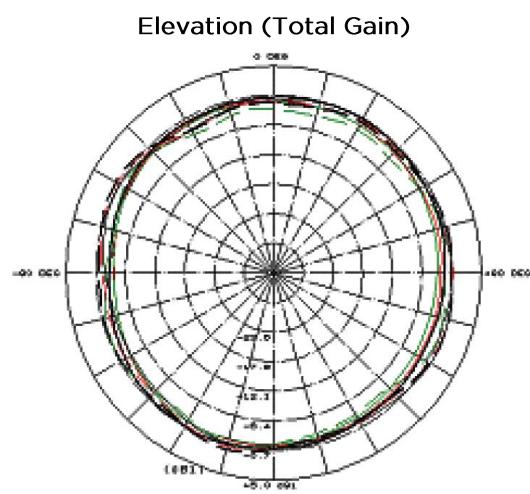
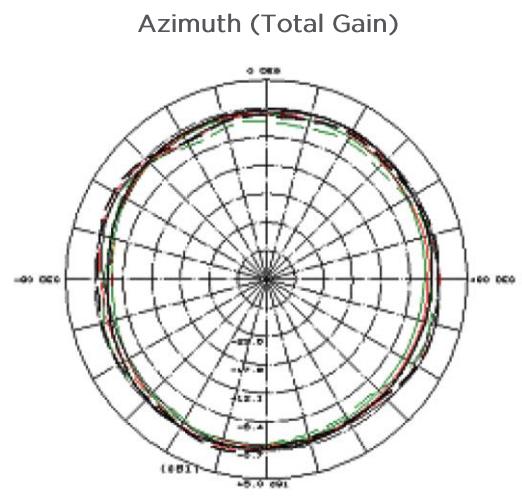
CONFIGURATION

PART NUMBER	DESCRIPTION	CONNECTOR	PACKAGING
MAF94192	D-Puck Antenna	Surface Mount	Tape and Reel
CAF94377	D-Puck Antenna on Evaluation Board	SMA-Female Panel	Single

MECHANICAL DRAWING



RADIATION PATTERNS



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