

## D-Puck

Model Number:  
**WID2452**

### Internal Antenna – Surface Mount

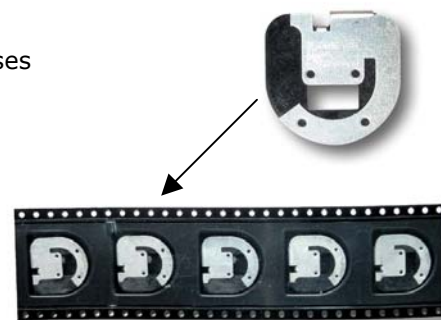
#### Specifications:

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

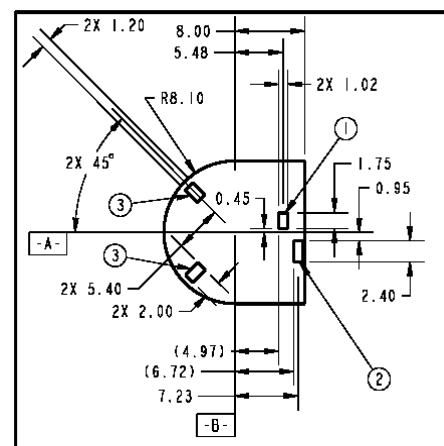
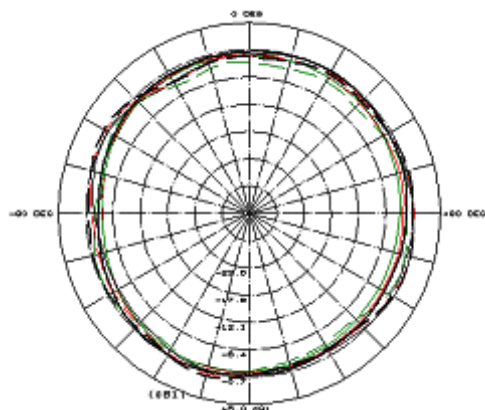
<b>Frequency Ranges</b>	2.4 - 2.5 GHz	5.15 - 5.875 GHz
<b>Gain</b>	>3 dBi	>4 dBi
<b>Polarization</b>	Linear	
<b>Impedance</b>	50 ohms	
<b>VSWR</b>	<2.5:1	
<b>Dimensions (L x W x H)</b>	16 x 16 x 6 mm	
<b>Weight</b>	2 g	
<b>Carrier Material</b>	Black color resin	

#### Connectors:

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



**Azimuth:**  
Total Gain



PCB FOOTPRINT LAYOUT  
SCALE 2

#### VSWR

- 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.
- 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

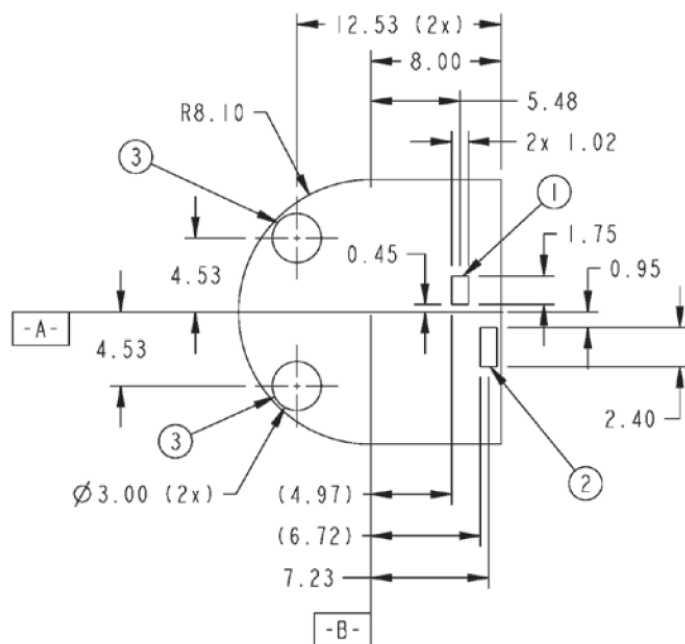
### ENVIRONMENTAL SPECIFICATIONS

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

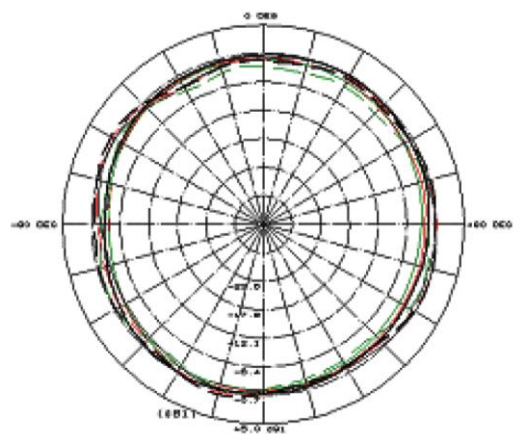
PART NUMBER	DESCRIPTION	CONNECTOR	PACKAGING
MAF94192	D-Puck Antenna	Surface Mount	Tape and Reel
CAF94377	D-Puck Antenna on Evaluation Board	SMA-Female Panel	Single

## MECHANICAL DRAWING

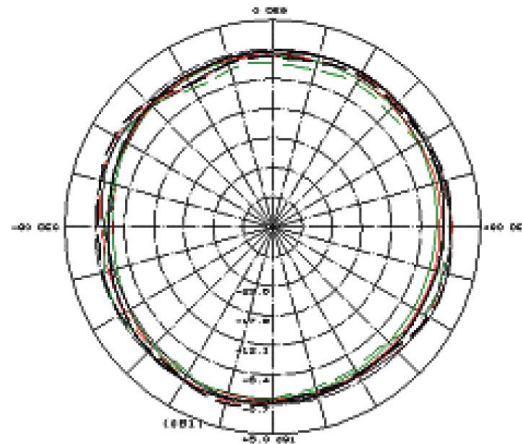


## RADIATION PATTERNS

Azimuth (Total Gain)



Elevation (Total Gain)



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