

Item Number: 8809-0026**Item Description: 976nm, 65W, 105µm Fiber-pigtailed Diode Module**

	Unit	Min	Typical	Max
Optical				
Nominal CW Output Power	W	65	-	-
Wavelength	nm	-	976	-
Wavelength Tolerance	nm	-	±3	-
Spectral Width (FWHM)	nm	-	4.5	5
Wavelength Temperature Coefficient	nm/°C	-	0.33	-
Power Conversion Efficiency	%	50	53	-
Electrical				
Operating Current	A	-	14	-
Threshold Current	A	-	0.6	-
Maximum Operating Voltage	V	-	9	10
Fiber data				
Fiber Core Diameter	μm		105	
Fiber NA	-		0.15	0.16
Fiber Termination	-		Pigtail	
Fiber Length	m		2	
Fiber Bend Radius	Mm	20	-	-
Mechanical, sensor and integration				
Housing Dimension			See Drawing	
Lead Soldering Temp			260°C for < 10 seconds	
Environmental				
ESD	V	-	-	500
Operating Housing Temperature	°C	0	25	30
Others				
Back Reflection Isolation 1040-1200nm	dB	15		

Notes

1. Specified performance to be tested at 25C module base temperature
2. A non-condensing environment is required for operation and storage. Storage conditions are from -20 to +70 °C with relative humidity between 5 to 85 %.

Technical drawing of the 1000 series antenna, showing two views: a front view (left) and a side view (right). The front view includes dimensions: 45 (total height), 39 (height to mounting flange), 3 (flange thickness), 7 (flange width), 32 (height to antenna base), 28.3 (antenna base height), 3 (antenna base thickness), 34 (width to mounting flange), 40.5 (width to antenna base), 48 (total width), 27.9 (height to mounting flange), 9.8 (height to antenna base), 19.5 (height to antenna base), 3-Ø3.4 (mounting holes), 2-Ø1.5 Pin (mounting pins), and Ø5.9 (antenna base diameter). The side view includes dimensions: 7 (height to mounting flange), 6.5 (height to antenna base), 7.5 (height to antenna base), 2.5 (height to antenna base), and 11.3 (total height).

A 3D perspective view of the antenna is shown at the bottom right, highlighting its yellow rectangular body and the antenna probe.

