

Item Number: 8809-0027**Item Description: 976nm, 250W, 135µm fiber-pigtailed Diode Laser Module**

	Unit	Min	Typical	Max
Optical				
Nominal CW Output Power	W	250	-	-
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	-	18	-
Threshold Current	A	-	1	-
Maximum Operating Voltage	V	-	27.5	29
Fiber data				
Fiber Core Diameter	μm		135	
Fiber NA	-		0.16	0.17
Fiber Length	m	-	2	-
Fiber Termination	-		Pigtail	
Fiber Bend Radius	Mm	25	-	-
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 %.

Outline Dimensions

