

Item Number: 8809-0021**Item Description: 976nm wavelength stabilized, 8W, 105µm fiber-pigtailed diode laser module**

	Unit	Min	Typical	Max
Optical				
Nominal CW Output Power	W	8.0	-	-
Wavelength	nm	975	976	977
Spectral Width (FWHM)	nm	-	1.0	-
Wavelength Temperature Coefficient	nm/° C	-	0.08	-
Slope Efficiency	W/A	-	0.95	-
Power Conversion Efficiency	%	-	50	-
Electrical				
Operating Current	A	-	9.0	9.5
Threshold Current	A	-	0.55	0.65
Maximum Operating Voltage	V	-	1.6	1.8
Maximum Reverse Voltage	V		2.5	
Fiber data				
Fiber Buffer Diameter	µm		-	
Fiber Cladding Diameter	µm		125	
Fiber Core Diameter	µm		105	
Fiber NA	-		0.22	
Fiber Length	m		1.2	
Fiber Termination	-		FC/UPC	
Fiber Bend Radius	mm	33	-	-
Mechanical and integration				
Housing Dimension			See Drawing	
Lead Soldering Temp			260° C for < 5 seconds	
Environmental				
ESD	V	-	-	500
Operating Housing Temperature Range	° C	20	25	30
Operating Humidity	%	15		75
Storage Temperature Range	° C	-40		70

Notes

1. Specified performance to be tested at 25C module base temperature
2. Non-condensing operating environment required

Outline Dimensions and Pin-out

