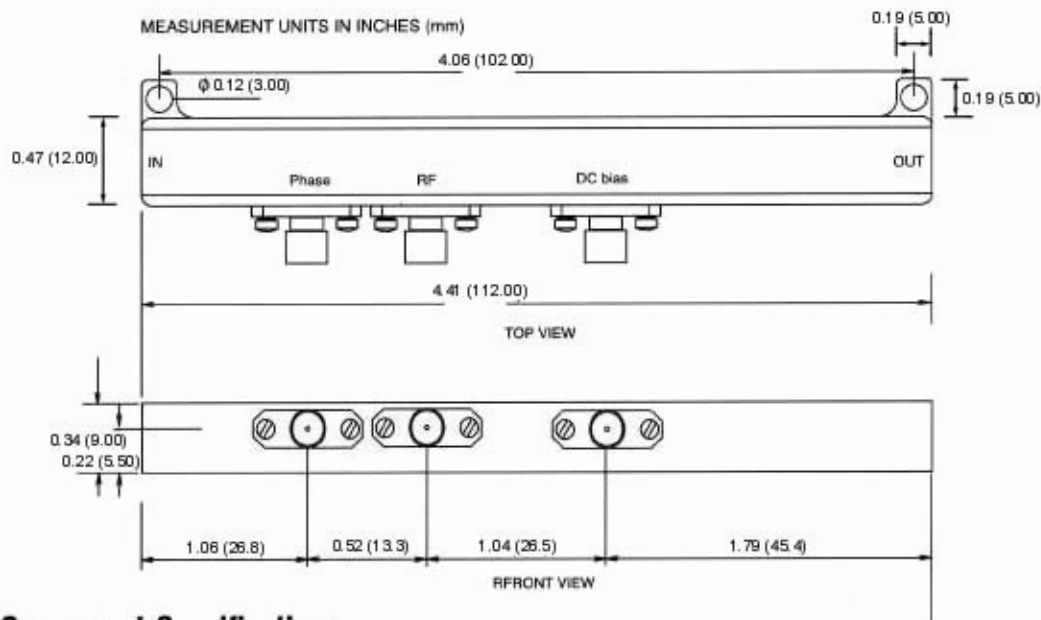


CATV Band Modulator 1 GHz



Component Specifications:

Optical Characteristics

Parameter	Min	Typical	Max	Unit
Wavelength of Operation	1520	1550	1580	nm
Insertion Loss of Device	—	4.5	5.0	dB
Optical Power	—	—	200	mW
Optical Return Loss	55	60	—	dB
Output Imbalance	—	0.5	1	dB

Microwave Characteristics

Parameter	Min	Typical	Max	Unit
Bandwidth	40	—	1000	MHz
V_{T1} (RF port) *	—	2.5	3.5	V
V_{T1} (DC bias port) *	—	5	6	V
Input Impedance of RF port	50	50	50	Ω
Amplitude Flatness	—	0.5	1.0	dB
Phase Flatness	—	—	5	degrees
S11	—	-19	-16	dB
CSO complementary	—	-70	-68	dB
Microwave Input	—	—	24	dBm

Phase Modulator

Parameter	Min	Typical	Max	Unit
Half-wave voltage, DC	—	—	8.5	V
Operating Bandwidth	—	—	4.0	GHz
S11	—	-19	-16	dB
Input Impedance	50	50	50	Ω

Physical Characteristics

Input Fiber/Connector	Fujikura PANDA Fiber/FC-PC
Output Fiber/Connector	Corning SM Fiber/FC-PC
Electrical Connectors	SMA
Operating Temp.	0°C – 75°C
Storage Temp.	-40°C – 90°C

* Data is measured at DC, unloaded



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