

## ST1013-10mW Micro CATV Optical Transmitter

### FEATURES & BENEFITS

- Designed for CATV HFC and FTTH networks
- Excellent linearity and flatness
- Single-mode fiber high return loss
- GaAs technology up to 1 GHz
- Ultra low noise technology
- Using DFB coaxial small package laser
- Solid die-cast aluminum housing
- Smaller size and easier installation
- Red-LED for power indication



### TECHNICAL SPECIFICATIONS

Parameters	Units	Value
<b>Optical Parameters</b>		
Output Wavelength	nm	1310
Optical Output Power	mW	10
Optical Return Loss	dB	≥45
Fiber Type	–	Single Mode
Optical Connector	–	SC/UPC
<b>RF Parameters</b>		
Frequency Range	MHz	47-1000
Gain Characteristic Flatness	dB	±0.75
Input Level	dBµV	80 ±5
Input Connector	–	F-female
Input Impedance	Ohm	75
Input Return Loss	dB	≥16
CNR (Carrier-to-Noise rating)	dB	≥52
CSO (Composite Second Order)	dB	≥60
CTB (Composite Triple Beat)	dB	≥63
<b>Other Parameters</b>		
Power Supply	VDC	12
Power Consumption	W	<2
Power Supply Connector	–	F-female
Operation Temperature Range	°C	0...+50
Net Weight	Kg	0.150
Dimensions (L*W*H)	mm	100*98*28

Notes: 1) RF Input 80 dBµV @ 42 channels – All channels flat  
 2) Laser power (mW versus dBm): 10mW= +10dBm  
 3) AC/DC Power adapter included



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 Specifications and features are subject to change without prior notice