1 SAT IF distribution equipment

Optical transmitter

- compact wideband optical transmitter offering optimal price-performance ratio
- SAT and DTT inputs with DC by pass for remote feeding
- gain adjustment (only for RF input)
- LED indication of input signal level and laser diode aging
- RF test output / DTT input port
- robust die-cast housing
- connectors:
  RF inputs - type F
  DC output - type F
  DC AUX - 5.5/2.1 mm DC jack
  optical - FC/APC



Technical specifications

T Y P E		MO001*
Wideband	frequency range	45-2400 MHz
RF input	return loss/impedance	> 12 dB / 75 Ω
	flatness	± 1.5 dB
	RF input level (AGC range)	65-90 dBμV (per transponder); 80-105 dBμV (total level)
	gain adjustment	0 - 8 dB by 1 dB step
	OMI (SAT IF 30 transp., AGC range)	4.9 %
	DC feeding for external, switchable	10 V - 20 V 350 mA max.
Terr.TV	frequency range	45-790 MHz
RF input	return loss/impedance	> 12 dB / 75 Ω
	flatness	± 1.5 dB
	RF input level	88 dBμV ± 2 dBμV (per transponder)
	DC feeding for external, switchable	10 V - 20 V 100 mA max.
	OMI (Terr.TV 8 channels)	7 %
RF test output	RF IN (wideband)**, output level	62 dBμV ± 2 dB dBμV
	Terr.TV IN loss	-23 dB ± 2 dB
	return loss/impedance	> 12 dB / 75 Ω
	flatness	± 1.5 dB
Optical output	parameters of laser	see ordering information*
	return loss	> 45 dB
Supply voltage		10 V...20 V
Power consumption without external load		2 W
Operating temperature range		-20° ÷ + 50° C
Dimensions/Weight (packed)		116x84x25.5 mm/0.28 kg

* ordering information:

Type	Laser	Ordering number
MO001 6F31	6 dBm FP 1310 nm	03806
MO001 6D55	6 dBm DFB 1550 nm	03809

Lasers with other optical wavelength are supplied by request.

** RF input, 30 SAT IF transponders, AGC range