

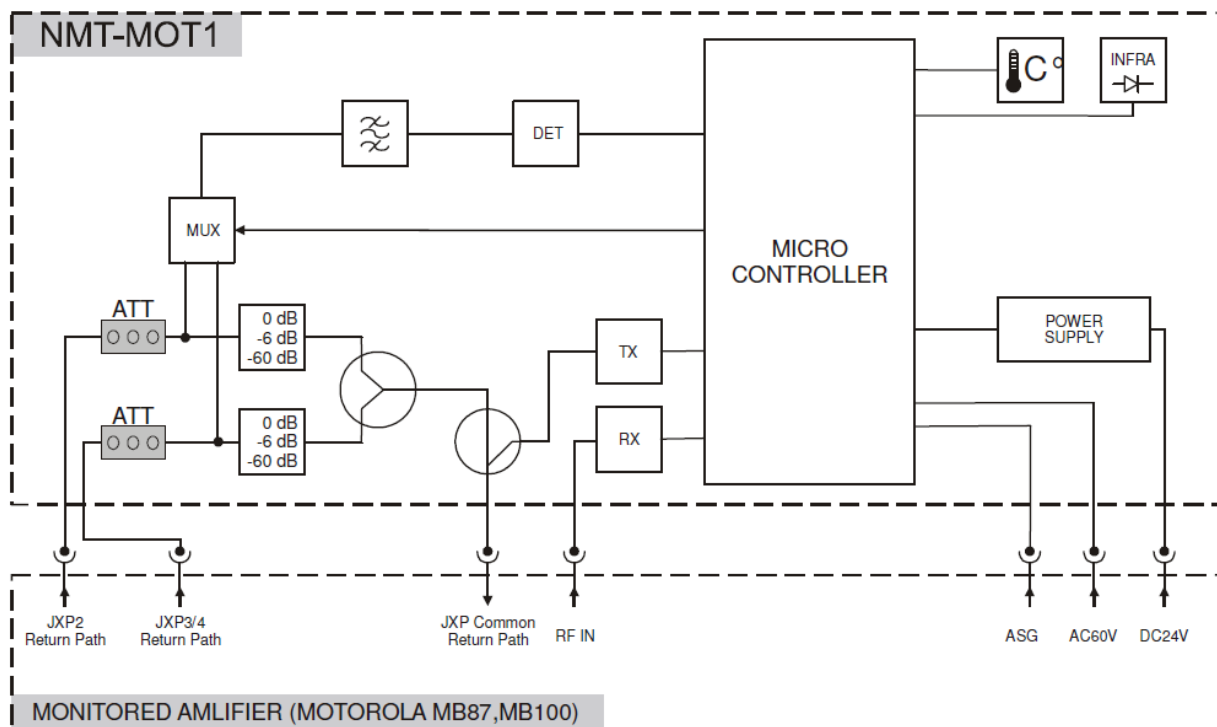
NMT-MBxxx

MONITORING TRANSPONDER



The NMT-MBxxx is a complete transponder solution for the MiniBridger amplifier from Motorola (MB89/100). Through a management SW such parameters as peak value of remote powering, operation temperature or AGC status (Automatic Gain Control) can be monitored. Furthermore the integrated return path switch enables operators to switch off or attenuate return path by 6 dB.

- Peak value of remote power
- Operation power supply
- Measured return path noise on 6 MHz on outputs
- Transponders' receiver's and transmitter's levels
- AGC Status
- Data read out over IP
- Remote SW update
- Return path switch off – ON/OFF/-6 dB



SPECIFICATIONS

MONITORING PARAMETERS	
Monitored parameters	
Peak value of remote power, operation power, operation temperature, ASG's state, measured return path noise on 6 MHz on outputs, transponder's receiver's and transmitter's level.	
Controlled parameters	State of the noise switch-off module (Off, On, -6dB, Auto)
Monitored device	MB-87, MB-100
RF PARAMETERS	
Transmitter output level range [dBμV]	80-120
Receiver input level range [dBμV]	40-80
Output level accuracy [dB]	± 3
Transmitter frequency [MHz]	18-28
Receiver frequency [MHz]	85-88 or 106-114
Transmitter and receiver frequency raster [kHz]	100
Transmitter and receiver frequency accuracy [kHz]	10
Isolation [dB]	-60
Output impedance [Ω]	75
Modulation	FSK±50kHz
GENERAL PARAMETERS	
Baud rate [baud]	38400
Power supply voltage [V]	+24
Power consumption [VA]	2,7
Temperature range [°C]	-40...+60
NOISE SWITCH-OFF MODULE'S PARAMETERS	
Frequency range [MHz]	5-65
Insertion loss (On State) [dB]	0,6±0,2
Insertion loss (Mid State) [dB]	-7±0,5
Insertion loss (Off State) [dB]	
5-30 MHz	> 50
30-65 MHz	> 40
Maximum output level (IMA III, B-60 dB) [dBμV]	117
Maximum output level (IMA II, B-60 dB) [dBμV]	116
Return loss (Off state) [dB]	> 20
Return loss (On State) [dB]	> 20
Temperature range [°C]	-40...+60
Power supply voltage [V]	24
Current consumption (Off State) [mA]	30
Current consumption (On State) [mA]	20
Control voltage (switch off) [VDC]	5
Control voltage (switch on) [VDC]	0