HARGON 3710

Trunk / distribution amplifier, 2 active outputs, 1.2 GHz / 200 MHz

RF PARAMETERS

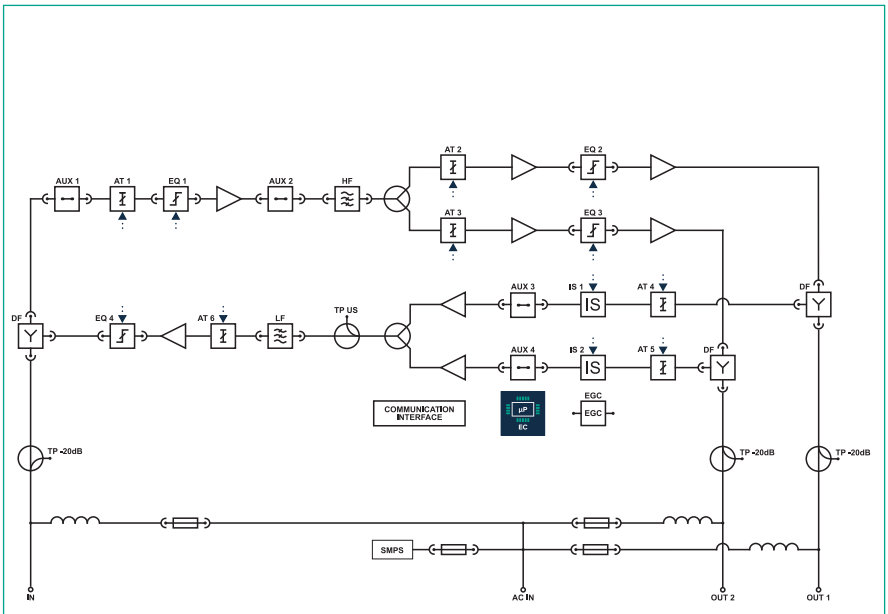
Forward Channel	
Bandwidth	85...258 - 1218 MHz
Gain @1.2 GHz TRUNK / DISTRIBUTION	2 x 35 / 44 ±0.5 dB
Noise figure [1]	< 7.5 dB
Flatness TRUNK / DISTRIBUTION	±0.75 dB
Output level: [2]	
CTB ≤ -60 dBc	2 x 118 dBµV
CSO ≤ -60 dBc	2 x 120 dBµV
Umax [3]	2 x 112 dBµV
Input testpoint (directional)	- 20 ±1.0 dB
Output testpoints (directional)	- 20 ±0.75 dB
Reverse Channel	
Bandwidth	5 - 65...204 MHz
Gain @204 MHz	2 x 28 ±0.75 dB
Noise figure [4]	< 8.5 dB
Flatness	±0.5 dB
NPR / Dynamic range [5]	48 dB / 23 dB

OTHERS

Voltage range: remote powering	30 - 65 V AC
Max. current for RF / AC IN ports	10 / 16 A
HUM modulation [6]	≤ -62 for 7 A
Return loss [7]	> 18 dB
Power consumption [8]	37 W
Operation temperature range	-40 - 60 °C
RF Connectors	3 x 5/8”
Protection class	IP 67
ESD protection	4 kV
Surge protection	6 kV
Dimensions (W x L x H)	255 x 234 x 128 mm
Weight	4.0 kg

AVAILABLE VERSIONS

HARGON 3710 079Y	remote powering



Downstream Configuration:
Input/Interstage gain control (AT1, AT2, AT3): 0 - 20, step 0.5 dB
Input/Interstage slope control (EQ1, EQ2, EQ3, EQ4): 0- 18, step 0.5 dB

Upstream Configuration:
Output/Interstage gain control (AT4, AT5, AT6): 0 - 20, step 0.5 dB
Output slope control (EQ6): 0- 18, step 0.5 dB
Ingress switches (IS1, IS2): 0, -6, -40 dB

1.2 GHz technology
An extended bandwidth in downstream up to 1.2 GHz; DOCSIS 3.1 standard compliant

200 MHz technology
A possibility of extending bandwidth in upstream up to 200 MHz

GaN Technology
The Output parameters for analog and digital carriers improved for lower power consumption

Electronic control
A quick and uninterrupted device configuration

VMC (VECTOR Mobile Commander)
Convenient and user-friendly configuration through mobile devices

OPTIONAL:

Spectrum Analyzer
Offers visibility over the whole frequency bandwidth

Auto Alignment
Self configuration based on optimal amplifier settings

NMS transponder
Reduced operating costs thanks to the remote monitoring and configuration

VIG (VECTOR Ingress Guard)
System compliant; Verification and elimination of the source of ingress in the network

ALSC (Automatic Level and Slope Control)
Flat and stable Output characteristics due to the compensation of temperature changes in the cables.

1. 7.5 dB - 750 MHz; 8.0 dB - from 750 MHz to 950 MHz; 9.0 dB - from 950 MHz to 1218 MHz
2. According to EN50083-3, 9 dB interstage slope between 85 - 862 MHz, 42 channels CENELEC
3. 110 ch 256 QAM, pre-FEC BER 10-9, 9 dB slope between 258 and 1218 MHz
4. @204 MHz + 1 dB
5. NPR @ -9 dBµV / Hz, measured 5 - 204 MHz with 180 MHz loading, 5 dB interstage attenuator
6. For f >15 MHz < f < 1 GHz
7. 18 dB for f ≤ 40 MHz, 18 dB -1.5 dB / oct for f > 40 MHz, but not worse than 12 dB
8. For 65 V AC

Unless otherwise specified, the whole specifications are tested with 65 / 85 diplex filters installed; at room temperature 25°C and present typical values.