

LAST MILE &  
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HOME



## House Connection Amplifiers

# DH4030-R065-UK HOUSE CONNECTION AMPLIFIER

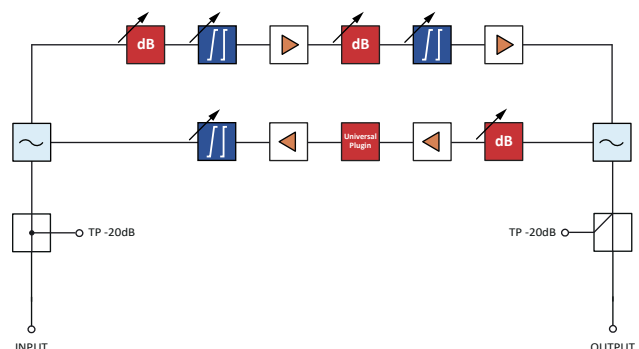
The DH4030-R065-UK from Teleste is a high performance 5-1006 MHz Amplifier with a 65/85 MHz fixed band split.

Using GaAs-FET technology for the amplifier stages means we have been able to produce high CTB & CSO performance with optimal power capability. All signal controls use Step Attenuators to avoid the need to have a large stock of different attenuator plug-ins.

### DH4030-R065-UK features


- 65/85 MHz fixed band split
- All adjustments with step attenuators
- GaAs FET and GaAs pHEMT technology in use
- Low US noise figure
- US input attenuator
- Downstream midstage gain and slope control
- Upstream midstage Universal Plug-in
- Improved ESD and surge protection
- Hole for sealing the lid

One of Teleste's superior performance products designed for easy installation and reliability.



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## HOUSE CONNECTION AMPLIFIERS / DH4030-R065-UK

RF CHARACTERISTICS			
Downstream signal path		Upstream signal path	
Frequency range	85...1006 MHz <sup>(1)</sup>	Frequency range	5...65 MHz <sup>(1)</sup>
Return loss	18 dB <sup>(2)</sup>	Return loss	18 dB <sup>(13)</sup>
Gain	40 dB <sup>(3)</sup>	Gain	30 dB <sup>(14)</sup>
Input attenuator control range	0...15 dB <sup>(4)</sup>	Input attenuator	0...15 dB <sup>(4)</sup>
Input equaliser control range	0...15 dB <sup>(4,5)</sup>	Output equalizer	0...15 dB <sup>(4)</sup>
Mid-stage equalizer control range	0...10 dB <sup>(6,7)</sup>	Midstage universal plug-in	(15)
Mid-stage attenuator control range	0...10 dB <sup>(6)</sup>	Flatness	± 0.75 dB
Flatness	± 0.75 dB <sup>(8)</sup>	Test point	- 20 dB <sup>(16)</sup>
Group delay	≤ 6 ns <sup>(9)</sup>	Group delay	≤ 20 nsec <sup>(17)</sup>
Noise figure	≤ 7.0 dB <sup>(10)</sup>	Noise figure	≤ 6 dB <sup>(18)</sup>
Test point	20 dB <sup>(11)</sup>	Output level, according to DIN 45004B	120 dBμV
CTB 41 channels	111 dBμV <sup>(12)</sup>	CSO 41 channels	111 dB <sup>(12)</sup>
		XMOD 41 channels	109 dBμV <sup>(12)</sup>
GENERAL			
Power consumption	17 W	Operating temperature	-40...+55 °C
Supply voltage	180...255 VAC	Class of enclosure	IP54
Test point connector	F- female	Safety	EN 60728 -11
Weight	< 2 kg	EMC	EN 60728 -2
Dimensions	210 x 170 x 78 mm (all included)	ESD	4 kV <sup>(19)</sup>
Input / output connectors	F-female according to DIN EN 61169-24, screwed into the housing.	Surge	4 kV, IEC 60728-3 <sup>(20)</sup>
NOTES:			
<ol style="list-style-type: none"> <li>Fixed band split.</li> <li>The limiting curve is defined at 40 MHz -1.5 dB / octave, min 12dB at 1006MHz.</li> <li>This is the minimum gain at 1006 MHz with 8 dB slope.</li> <li>Rotary electronic step attenuator with step size of 1 dB is used.</li> <li>Cable equivalent slope between 85...1006 MHz.</li> <li>Mechanical step attenuators with step size of 2dB are used.</li> <li>Cable equivalent slope between 85...1006 MHz.</li> <li>Guaranteed value after 109 MHz. Flatness is defined with 8 dB mid-stage slope. All other values set to 0dB.</li> <li>Max. value in 4.43 MHz band after 109 MHz.</li> <li> <ol style="list-style-type: none"> <li>Guaranteed value after 109 MHz with flat gain. 0.5dB worse at 85 MHz.</li> <li>With 8dB midstage slope, noise figure decreases from 8.2dB to &lt;7.0dB between 109 MHz and 1006 MHz. 0.5dB worse at 85 MHz.</li> </ol> </li> <li>Output TP is from a directional coupler and has a ±1.0 dB tolerance. Input TP is a transformer type and it is having an accuracy of ± 2.0 dB. Both test points are internal.</li> <li>According to IEC60728-3. Amplifier output was 8 dB cable equivalent sloped. All results are typical values in room temperature. XMOD is measured at the lowest channel. The highest recommended output level for the amplifier is 112.0 dBuV with 41 channels. Valid for both gain modes.</li> <li>Valid over the band 7...65 MHz with 0dB slope. 16dB min. between 5 and 7 MHz.</li> <li>This is the guaranteed minimum gain at 65 MHz with 9 dB output slope.</li> <li>JDA-series plug-in attenuator, correctors or ingress filters can be used.</li> <li>-20 dB level is referred to US output, when 0 dB settings are in use.</li> <li>Max. value for 2 MHz band between 7 and 63 MHz. ≤ 35nsec between 63 and 65MHz and ≤ 55nsec between 5 and 7MHz</li> <li>Guaranteed value with 9dB output slope.</li> <li>EN61000-4-2, contact discharge to enclosure and RF-ports.</li> <li>EN61000-4-5, 1.2 / 50 μs pulse applied to RF-ports.</li> </ol>			
ORDERING INFORMATION			
Type DH4030-R065-UK is an amplifier equipped with 230 VAC power supply with UK plug, 2 F-female connectors and 0dB Universal Plug-in.			

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