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High Power Amplifier 700-4200MHz

HFPA0742 is wideband high power amplifier. High gain more than 40dB and high output power of HFPA0742 provide for reliable work in frequency range 700MHz up to 4200MHz. Solid enclosure and modern design make much simpler work of everyday.

Features:

- Wideband
- High gain >40dB
- High output power
- Excellent flatness ± 1 dB
- High IP3
- Switching power supply
- Compact and reliable
- Wide voltage range

Applications:

- Measuring
- Communication
- Laboratory
- Antenna systems
- Military applications
- GSM/DCS/UMTS
- Wi-Fi 2.4GHz
- WiMax 3.5GHz



RF characteristics*

Frequency range	700-4200					MHz
IN/OUT impedance	50/50					Ohm
	700MHz	1500MHz	2600MHz	3400MHz	4200MHz	
Gain	41.5	41.0	40.0	41.0	40.0	dB
Out 1dB comp. (typ)	31.0	31.5	30.0	31.0	32.0	dBm
Out 1dB comp. (min)	29.0					dBm
Flatness	± 1					dB
VSWR IN	1.5					dB
VSWR OUT	2.0					dB
Noise figure	7.3					dB
Output IP3	+40					dBm

* Measured at temperature T=+25°C

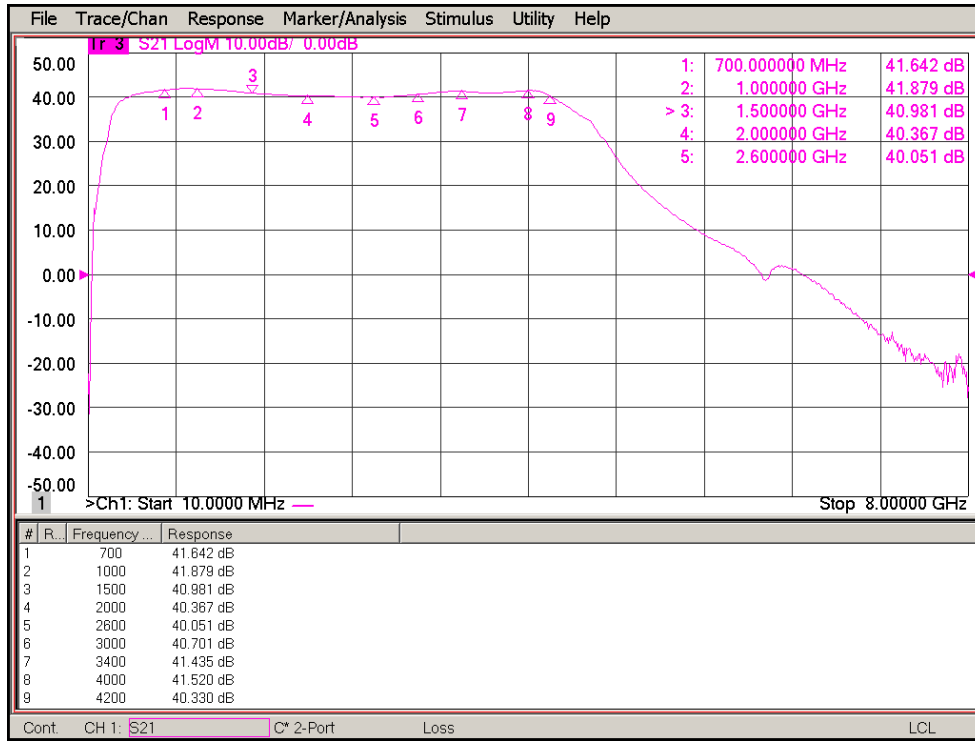
DC and mechanical characteristics

Device current	770mA (+15V)	mA
Device voltage (DC)	+14.5...+20	V
IN/OUT Connector	SMA-female/ SMA-female	
Enclosure type	Indoor, aluminium	
DC connector	Soldering pins	
Dimensions	165x73x48	mm

Absolute maximum ratings

Device voltage	+20	V
RF in power (no damage)	0	dBm
Output load VSWR (max)	1:2	
Temperature	-20...+65	°C

HFPA0742 transfer function curve



Mechanical dimensions

