

# BUILDING BLOCKS FOR LINEAR TRANSMITTERS

Boost your radio

## 6-44GHz High Power Amplifiers and Drivers



Short distance



Satcom



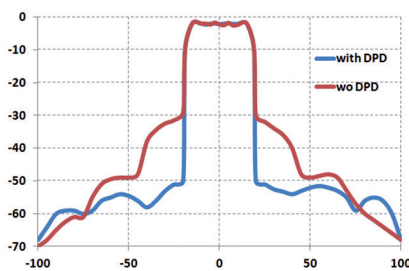
Point to Point



Point to Multipoint

### Field proven performance

- Full line-up
- High linearity
- Compatible with pre-distortion
- Versatile biasing scheme
- Built-in detectors



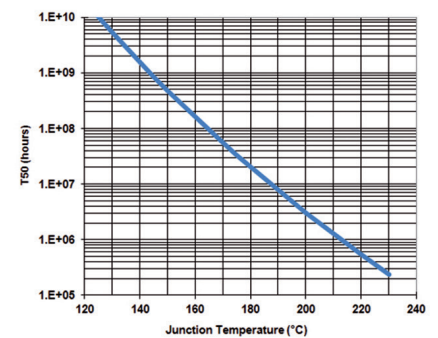
### Easy to use packaged solutions

- Surface mount
- Thermally proven
- Low VSWR
- ESD protected



### Reliability and lifetime benefits

- Space evaluated technologies
- Qualified package technology



Build your own solution with UMS

[www.ums-rf.com](http://www.ums-rf.com)



# Building blocks for Linear transmitters



## QFN PACKAGED HPAs : INTEGRAL POWER DETECTORS

Part Number	RF Bandwidth (GHz)	Gain (dB)	IP3 (dBm)	P-1 dB (dBm)	Psat (dBm)	PAE %	Bias (mA)@V
CHA6550-QXG	17-24	22	41	33.5	34	20 @ Psat	1300@6
CHA6551-99F*	17-24	20	37	29	31	25 @ Psat	850@4
CHA6362-QXG	17.7-19.7	22	42	33	34.5	24 @ Psat	1340@6
CHA6652-QXG	21-27.5	20	41	32.5	33	25 @ Psat	1300@6
CHA6356-QXG	21.2-23.6	20	42	33	33.5	22 @ Psat	1300@6
CHA6653-QXG	27-33.5	20	38	32	33	23 @ Psat	900@6
CHA5659-QXG	36-43.5	20	38.5	29.5	30	15 @ Psat	800@6
CHA6194-QXG	37-40	20	38	30	31	18 @ Psat	800@6

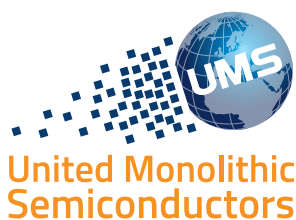
\*in bare die

## QFN PACKAGED DRIVERS

Part Number	RF Bandwidth (GHz)	Gain (dB)	IP3 (dBm)	P-1 dB (dBm)	Psat (dBm)	Bias (mA)@V
CHA5266-QDG	10-16	23	35	25.5	27	320@5
CHA4253aQQG	17-24	23	33	24	24.5	230@4
CHA3395-QDG	21-29.5	24	32	20	22	180@4
CHA3396-QDG	27-33.5	22	30	19	21	155@4
CHA3397-QDG	36-40.5	21	29	18	20	200@4
CHA3398-QDG	36-43.5	22	29	18	19	200@4

## ATTENUATORS

Part Number	RF Bandwidth (GHz)	Insertion Loss (dB)	Amplitude Control (dB)	P-1 dB IN (dBm)
CHT3091aQAG	DC-12	3	20	15
CHT4660-QAG	DC-16	2	30	24
CHT4690-99F	5-30	4	28	25
CHT4690-QAG	5-30	4	31	25
CHT4694-QAG	25-40	4	22	22
CHT4694-99F	25-45	4	24	22
CHT4699-QDG	36-44	4	30	20



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