

Product Selection Guide



1.8 - 3.0 GHz RF Power Transistors

Part Number	Package	Band (GHz)	Max Supply Voltage (V)	Output Power P _{SAT} (W)	Power Gain (dB)	CW Drain Efficiency @ P _{SAT} (%)	Linear Output Power
NPTB00004	PO150S	DC-6.0	32	5 / 2.5GHz	19.5 / 2.5GHz	55 / 2.5GHz	0.8W, 2% EVM, 2500MHz²
NPT25015	PO150S	DC-3.0	32	25 / 2.5GHz	14.0 / 2.5GHz	58 / 2.5GHz	1.5W, 2%EVM, 2500MHz ²
NPT25100	AC780B-2 AC780P-2	1.8-2.7	32	90 / 2.5GHz	16.5 / 2.5GHz	62 / 2.5GHz	10W, 2% EVM, 2500MHz ²
NPT1006	AC780B-4	1.9-2.2	32	180 / 2.1GHz	16.0 / 2.1GHz	63 / 2.1GHz	45W, -35dBc ACPR ¹
NPT1005	AC780B-4	2.3-2.7	32	180 / 2.5GHz	15.0 / 2.5GHz	60 / 2.5GHz	20W, 2% EVM, 2500MHz ²

3.0 - 6.0 GHz RF Power Transistors

Part Number	Package	Band (GHz)	Max Supply Voltage (V)	Output Power P _{SAT} (W)	Power Gain (dB)	CW Drain Efficiency @ P _{SAT} (%)	Linear Output Power
NPTB00004	PO150S	DC-6.0	32	5 / 3.5GHz	16.5 / 3.5GHz	55 / 3.5GHz	0.4W, 2% EVM, 3500MHz³
NPT35015	PO150S	3.0-6.0	32	18 / 3.5GHz	11.0 / 3.5GHz	48 / 3.5GHz	1.5W, 2% EVM, 3500MHz ³
NPT35050A	AC780B-2	3.3-3.8	32	65 / 3.5GHz	12.5 / 3.5GHz	45 / 3.5GHz	6W, 2% EVM, 3500MHz ³

Broadband RF Power Transistors

Part Number	Package	Band (GHz)	Max Supply Voltage (V)	Output Power P _{SAT} (W)	Power Gain (dB)	CW Drain Efficiency @ P _{SAT} (%)
NPTB00004	PO150S	DC-6.0	32	5 / 3.0GHz	16.5 / 3.0GHz	55 / 3.0GHz
NPT25015	PO150S	DC-3.0	32	25 / 2.5GHz	14.0 / 2.5GHz	58 / 2.5GHz
NPT35015	PO150S	3.0-6.0	32	18 / 3.5GHz	11.0 / 3.5dB	48 / 3.5GHz
NPTB00025	AC200B	DC-4.0	32	25 / 3.0GHz	13.5 / 3.0GHz	65 / 3.0GHz
NPTB00040	AC360C	DC-3.0	48	40 / 0.9GHz	22.0 / 0.9GHz	60 / 0.9GHz
NPTB00050	AC360B	DC-4.0	32	50 / 3.0GHz	11.5 / 3.0GHz	60 / 3.0GHz
NPT1004	PO150S	DC-4.0	32	40 / 2.5GHz	13.5 / 2.5GHz	55 / 2.5GHz
NPTB00080	AC360C	DC-3.0	48	80 / 0.9GHz	21.0 / 0.9GHz	65 / 0.9GHz
NPT1007	AC780B-4	DC-2.0	32	200 / 0.9GHz	18.0 / 0.9GHz	68 / 0.9GHz
NPTB00120	AC360C	DC-2.0	48	130 / 0.9GHz	20.0 / 0.9GHz	65 / 0.9GHz
NPTB00180	AC360C	DC-2.0	48	180 / 0.9GHz	20.0 / 0.9GHz	65 / 0.9GHz

¹Single carrier W-CDMA, 3GPP Test Model 1/64

²Single carrier OFDM, 10.3dB PAR, 10MHz Channel, Continuous data

³Single carrier OFDM, 10.3dB PAR, 3.5MHz Channel, 75% frame data

New products are in Red
Preview products are in Blue



PO150S

AC200B

AC200P

AC360B/C

AC360P

AC780B-2

AC780P-2

AC780B-4