

1. Select product key for application.

Product Key	Description	Frequency Bandwidth	Power Levels Up to	Stock Series
BBM	Broadband Modules	10 KHz - 8 GHz	600 Watt	1000
BBS	Broadband Systems	10 KHz - 8 GHz	2000 Watt	2000
GCM	General Communication Modules	0.1 MHz - 4.2 GHz	800 Watt	3000
GCS	General Communication Systems	0.1 MHz - 4.2 GHz	2500 Watt	4000
MBM	Matched Band Modules *	2 GHz - 18 GHz	300 Watt	5000
MBS	Matched Band Systems *	2 GHz - 18 GHz	1000 Watt	6000
PCM	Personal Communication Modules	Cell, GSM, PCS, iDEN, WiMAX, WLL	Various	7000
PCS	Personal Communication Systems	Cell, GSM, PCS, iDEN, WiMAX, WLL	Various	8000

Frequency Select Chart

2. From the Frequency Select Chart

Select start frequency (MHz). Note column number and row letter.

Select stop frequency (MHz). Note column number and row letter.

* Note. For Matched Band Models, use frequency in GHz without the decimal point.

Column Number

Row	0	1	2	3	4	5	6	7	8	9	Row
A	0.01	-	-	-	1000.00	2000.00	3000.00	4000.00	5000.00	15000.00	A
B	0.05	-	-	-	1050.00	2050.00	3050.00	4050.00	5500.00	15500.00	B
C	0.10	1.00	10.00	100.00	1100.00	2100.00	3100.00	4100.00	6000.00	16000.00	C
D	0.15	1.50	15.00	150.00	1150.00	2150.00	3150.00	4150.00	6500.00	16500.00	D
E	0.20	2.00	20.00	200.00	1200.00	2200.00	3200.00	4200.00	7000.00	17000.00	E
F	0.25	2.50	25.00	250.00	1250.00	2250.00	3250.00	4250.00	7500.00	17500.00	F
G	0.30	3.00	30.00	300.00	1300.00	2300.00	3300.00	4300.00	8000.00	18000.00	G
H	0.35	3.50	35.00	350.00	1350.00	2350.00	3350.00	4350.00	8500.00	18500.00	H
I	0.40	4.00	40.00	400.00	1400.00	2400.00	3400.00	4400.00	9000.00	19000.00	I
J	0.45	4.50	45.00	450.00	1450.00	2450.00	3450.00	4450.00	9500.00	19500.00	J
K	0.50	5.00	50.00	500.00	1500.00	2500.00	3500.00	4500.00	10000.00	20000.00	K
L	0.55	5.50	55.00	550.00	1550.00	2550.00	3550.00	4550.00	10500.00	20500.00	L
M	0.60	6.00	60.00	600.00	1600.00	2600.00	3600.00	4600.00	11000.00	21000.00	M
N	0.65	6.50	65.00	650.00	1650.00	2650.00	3650.00	4650.00	11500.00	21500.00	N
O	0.70	7.00	70.00	700.00	1700.00	2700.00	3700.00	4700.00	12000.00	22000.00	O
P	0.75	7.50	75.00	750.00	1750.00	2750.00	3750.00	4750.00	12500.00	22500.00	P
Q	0.80	8.00	80.00	800.00	1800.00	2800.00	3800.00	4800.00	13000.00	23000.00	Q
R	0.85	8.50	85.00	850.00	1850.00	2850.00	3850.00	4850.00	13500.00	23500.00	R
S	0.90	9.00	90.00	900.00	1900.00	2900.00	3900.00	4900.00	14000.00	24000.00	S
T	0.95	9.50	95.00	950.00	1950.00	2950.00	3950.00	4950.00	14500.00	24500.00	T

Power Level Select Chart

3. From the Power Level Select Chart.

Select output power (dBm) or Watts. Note power level reference.

Select gain (dB). Note power level reference.

Power Level	Pout dBm	Pout Watt	Gain dB
0	30.0	1.0	2.0
1	31.0	1.3	4.0
2	32.0	1.6	6.0
3	33.0	2.0	8.0
4	34.0	2.5	10.0
5	35.0	3.2	12.0
6	36.0	4.0	14.0
7	37.0	5.0	16.0
8	38.0	6.3	18.0
9	39.0	7.9	20.0
A	40.0	10.0	22.0
B	41.0	12.6	24.0
C	42.0	15.8	26.0
D	43.0	20.0	28.0
E	44.0	25.0	30.0
F	45.0	31.6	32.0
G	46.0	39.8	34.0
H	47.0	50.1	36.0

Power Level	Pout dBm	Pout Watt	Gain dB
I	48.0	63.1	38.0
J	49.0	79.4	40.0
K	50.0	100.0	42.0
L	51.0	125.9	44.0
M	52.0	158.5	46.0
N	53.0	199.5	48.0
O	54.0	251.2	50.0
P	55.0	316.2	52.0
Q	56.0	398.1	54.0
R	57.0	501.2	56.0
S	58.0	631.0	58.0
T	59.0	794.3	60.0
U	60.0	1000.0	62.0
V	61.0	1259.0	64.0
W	62.0	1585.0	66.0
X	63.0	2000.0	68.0
Y	64.0	2511.0	70.0
Z	65.0	3162.0	72.0

Examples

Model Number Creation	Broadband Modules	Start: 10MHz	Stop: 1100MHz	Pout: 25Watt	Gain: 44dB
	BBM	2C	4C	E	L

Stock Series	Product Key	Description	Model	Start MHz	Stop MHz	Pout Watt	Gain dB
1000	BBM	Broadband Modules	BBM2C4CEL	10	1100	25	44
2000	BBS	Broadband Systems	BBS1C4AKO	1	1000	100	50
3000	GCM	General Communication Modules	GCM3E3IKO	225	400	100	50
4000	GCS	General Communication Systems	GCS1E2GUT	2	30	1000	60
5000	MBM	Matched Band Modules	MBM7177AJ	7100	7700	10	40
6000	MBS	Matched Band Systems	MBS5964BK	5900	6400	13	42
7000	PCM	Personal communication Modules	PCM4S5ALP	1930	1990	125	52
8000	PCS	Personal communication Systems	PCS3R3SIO	869	894	60	50

4. Systems and Modules Options.

Standard options and combination option packages are available. A listing is included.

The options are assigned a number and are not included in the above product number.

These are quoted as separate line items using the option number.

5. SKU Products. (Stock Keep Units)

Empower has many standard products available that meet a variety of application needs.

The stock series list is updated regularly and provides a quick reference to standard items.

After a product number is selected, review the product series list, which is attached for reference.

Product can also be ordered by the SKU number.