

RF Data of R&S® QPS100 and R&S® QPS200 and QPS201

Number of transmitting antennas per panel	3008
Number of receiving antennas per panel	3008
Number of reference channels per panel	65
Number of tiles („clusters“) per panel	32
Antenna raster	3 mm
Aperture (W × H) of a panel	987 mm × 2115 mm
Antenna height above ground level	122 mm to 2237 mm
Beam width of an antenna (horizontal and vertical)	76°
Antenna tilt	0°
Transmitting time of a single antenna at a single frequency	80 ns
Transmitting time of a panel at a single frequency	240.64 µs
Dwell time at a single frequency	245.76 µs
Total transmitting time per posture for QPS100	16 ms
Total transmitting time per posture for QPS200	64 ms
Repetition rate	0.2 Hz or less
Number of frequencies for QPS100	64
Number of frequencies for QPS200	128
Start frequency	69.895238 GHz
Stop frequency	79.895238 GHz
Peak output power	1 dBm
Antenna gain	6 dBi
Polarization	45° linear
Average power density at 1 m range in front of the panel	800 pW/cm ²

Nominal frequencies for QPS100 (in Hz):

69895238095.2381	70002348267.9884	70111123601.5767	70221564096.0031
70333669751.2676	70447440567.3701	70562876544.3107	70679977682.0894
70798743980.7061	70919175440.1609	71041272060.4537	71165033841.5845
71290460783.5535	71417552886.3606	71546310150.0056	71676732574.4887
71808820159.8100	71942572905.9692	72077990812.9664	72215073880.8018
72353822109.4752	72494235498.9867	72636314049.3363	72780057760.5239
72925466632.5496	73072540665.4133	73221279859.1151	73371684213.6550
73523753729.0329	73677488405.2489	73832888242.3029	73989953240.1950
74148683398.9252	74309078718.4934	74471139198.8996	74634864840.1440
74800255642.2264	74967311605.1468	75136032728.9054	75306419013.5019
75478470458.9366	75652187065.2094	75827568832.3201	76004615760.2689
76183327849.0557	76363705098.6807	76545747509.1437	76729455080.4448
76914827812.5840	77101865705.5611	77290568759.3764	77480936974.0297
77672970349.5210	77866668885.8505	78062032583.0179	78259061441.0235
78457755459.8671	78658114639.5488	78860138980.0685	79063828481.4263
79269183143.6221	79476202966.6561	79684887950.5280	79895238095.2381

Nominal frequencies for QPS200 and QPS201 (in Hz):

69895238095.2381	72079670923.4875	74489957872.9130	77126098943.5144
69960082930.8101	72151573700.3463	74568918591.0585	77212117602.9467
70025148327.0474	72223697037.8703	74648099869.8692	77298356823.0442
70090434283.9498	72296040936.0595	74727501709.3452	77384816603.8069
70155940801.5175	72368605394.9139	74807124109.4863	77471496945.2348
70221667879.7503	72441390414.4335	74886967070.2927	77558397847.3279
70287615518.6484	72514395994.6183	74967030591.7643	77645519310.0862
70353783718.2117	72587622135.4684	75047314673.9011	77732861333.5098
70420172478.4402	72661068836.9836	75127819316.7031	77820423917.5986
70486781799.3339	72734736099.1641	75208544520.1703	77908207062.3525
70553611680.8928	72808623922.0098	75289490284.3027	77996210767.7717
70620662123.1170	72882732305.5206	75370656609.1004	78084435033.8561
70687933126.0063	72957061249.6967	75452043494.5632	78172879860.6057
70755424689.5609	73031610754.5381	75533650940.6913	78261545248.0205
70823136813.7807	73106380820.0446	75615478947.4845	78350431196.1005
70891069498.6656	73181371446.2163	75697527514.9430	78439537704.8457
70959222744.2158	73256582633.0532	75779796643.0667	78528864774.2562
71027596550.4312	73332014380.5554	75862286331.8556	78618412404.3318
71096190917.3118	73407666688.7227	75944996581.3097	78708180595.0727
71165005844.8576	73483539557.5553	76027927391.4290	78798169346.4787
71234041333.0687	73559632987.0531	76111078762.2136	78888378658.5500
71303297381.9449	73635946977.2161	76194450693.6633	78978808531.2865
71372773991.4864	73712481528.0443	76278043185.7783	79069458964.6883
71442471161.6930	73789236639.5377	76361856238.5584	79160329958.7552
71512388892.5649	73866212311.6963	76445889852.0038	79251421513.4873
71582527184.1020	73943408544.5202	76530144026.1144	79342733628.8846
71652886036.3043	74020825338.0092	76614618760.8902	79434266304.9472
71723465449.1718	74098462692.1635	76699314056.3312	79526019541.6749
71794265422.7045	74176320606.9830	76784229912.4374	79617993339.0679
71865285956.9025	74254399082.4676	76869366329.2089	79710187697.1261
71936527051.7656	74332698118.6175	76954723306.6455	79802602615.8495
72007988707.2940	74411217715.4326	77040300844.7474	79895238095.2381