



Rev F (AUG 2016)

Pulse Internal Antennas for ISM, WiFi and 3G/4G(LTE)

App.	Type	Pulse Part number	RF Performance						ME requirement			Note	Availability
			Operating Frequency (MHz)	RL Min. (dB)	Peak Gain (dBi)		Efficiency %/(dB)		Antenna DIM. (LxWxH,mm)	Cable Length from PCB edge/ Diameter, mm)	Connector Type		
					Peak	Band edges	Peak	Band edges					
ISM 868/915	FPC	W3312B0100	860-930	-8	2.3	-	50 (Avg.)		75 x 15	L:100 / D:1.13	IPEX MHF 20278	Alternative: W3502, W3538, W3501	Contact to sales for datasheet
ISM WiFi Combo	PCB	W3332B0100	863-928	-5	0.2	-	55 (Avg.)		82 x 15 x 0.56	L:150 / D:1.13	IPEX MHF 20278	ISM 868/915 and 2.4GHz WiFi (two feed cables). Isolation: <-11dB.	Contact to sales for datasheet
			2400-2500	-10	4.1	-	64 (Avg.)						
WiFi, BT, Zigbee	PCB	W3525B039	2400-2483.5	-10	2	0.6	65	55	48 x 11 x 0.8	L:100 / D:1.13	IPEX MHF 20278		Stock
		W3593B0100	4900-5850	-10	2	0.5	70	50	45 x 7 x 0.8	L:100 / D:1.13	IPEX MHF 20278	v	Stock
		W3513B0212	2400-2500	-13	2	1.4	70/-1.5	68/-1.7	16 x 70 x 0.9	L:212 / D:1.13	IPEX MHF 20278		Stock
	4900-5850	-10	2.7	0.4	67/-1.8	52/-2.7							
	FPC	W3315B0100	2400-2500	-10	2	-	65	-	45 x 6 x 0.1	L:100 / D:1.13	IPEX MHF-A13 20428-001R	Measured with 2mm PC/ABS plastic	Stock
			4900-5875	-10	5	-	76	-					
FPC	W3334B0150	2400-2500	-10	4	-	52 (Avg.)		14 x 5 x 0.1	L:150 / D:1.13	IPEX MHF 20278	Measured with 1.5mm PC/ABS plastic	Contact to sales for datasheet	
		4900-5900	-10	5	-	80 (Avg.)							
MIMO WiFi	FPC	W6102B0100	2400-2500	-10	1 (Avg.)		40 (Avg.)		50 x 20 x 0.1	L:100 / D:1.13	IPEX MHF 20278	Measured with 1.5mm PC/ABS plastic	Contact to sales for datasheet
			4900-5900	-10	5 (Avg.)		75 (Avg.)						
	FPC	W6103B0100	2400-2500	-10	4.5 (Avg.)		52 (Avg.)		80 x 20 x 0.1	L:100 / D:1.13	IPEX MHF 20278	Measured with 1.5mm PC/ABS plastic	Contact to sales for datasheet
4900-5900	-10	5 (Avg.)		80 (Avg.)									
3G	PCB	W3502B0020	824-960	-6	2	0.8	78/-1.2	55/-2.5	43 x 17 x 0.5	L:20 / D:1.13	IPEX MHF 20278	80mm ground plane with 5mm gap inside plastic box	Stock
			1710-1990	-4	2.4	-0.4	80/-0.95	70/-1.55					
	FPC	W3538B0200	824-960	-6	-	-	57	41	40 x 15 x 0.7	L:200 / D:1.13	IPEX MHF 20278	On plastic PC plate with test ground	Stock
			1710-2170	-6	-	-	71	50					
FPC	W3501B0140	824-960	-7	1.5	0.8	61	50	87 x 25 x 0.2	L:140 / D:1.13	IPEX MHF 20278	Test unit : 150x100x40. W/ adhesive: W3571B0140.	Stock	
		1710-1990	-8	4.2	2.8	71	50						
4G (LTE)	FPC	W3554B0140	698-798	-5	1.5	-0.6	75	50	120 x 30 x 0.2	L:140 / D:1.13	IPEX MHF 20278	Connected on a test board 120x120 with 10mm gap	Stock
			824-960	-7	1.8	0.4	80	50					
			1710-2690	-8	3.9	1.9	86	65					
MIMO 4G (LTE)	FPC	W6112B0100	698-960	-10	4.3 (Avg.)		55 (Avg.)		224 x 20 x 0.1	L:100 / D:1.13	IPEX MHF 20278	Measured with 1.5mm PC/ABS plastic	Contact to sales for datasheet
			1428-2700	-8	3.8 (Avg.)		68 (Avg.)						
			3400-3600	-10	4 (Avg.)		65 (Avg.)						

Note: 1. I-PEX MHF connector is U.FL compatible. Receptacle PN of IPEX MHF 20278-112R-13: 20279-001E (3pad), 20441-001E(4pad). Cable length is starting at an edge of PCB. 3. See datasheets for available cable lengths or contact the factory. 4. "Stock" Stocked parts are typically available from Pulse distribution partners immediately.