



	Application	Cryostat/ magnet	Surface layer	Dimensions [mm]	Part numbers for CPWs with SMA family connectors						Part numbers for CPWs with push-on connectors													
	FMR	Spin pumping, ISHE	Rotation, e.g. for angular FMR <sup>5</sup>	GSG bonding	Room temperature magnets	Quantum Design PPMS/Versalab	Quantum Design MPMS3	Lake Shore MCS-EMP & 8600 Series	MicroSense - KLA VSM	Gold. No insulation	Gold. 20 μm insulation	Bumps	Width at sample	Length to sample	Max width	Sample area	SMA	SMA non-magnetic <sup>3</sup>	2.92 mm	2.4 mm	2.4 mm non-magnetic <sup>3</sup>	1.85 mm	SMP	SMPM
CPW Standard	✓	✓			✓					✓			11.8	19	20	12 x 8.5	00101		00102	00104	00107			
CPW Standard ISHE	✓	✓	✓		✓					✓	✓ <sup>1</sup>		11.8	19	20	9 x 8.5	00201		00202	00204	00207			
CPW narrow	✓	✓			✓					✓			9	43	9	15 x 5.5	02301		02302	02304	02307			
CPW narrow ISHE	✓	✓	✓		✓					✓	✓ <sup>1</sup>		9	43	9	13 x 5.5	02101		02102	02104	02107			
CPW large magnet	✓	✓			✓					✓			11.8	43	20	15 x 8.5	00801		00802	00804	00807			
CPW large magnet ISHE	✓	✓	✓		✓					✓	✓ <sup>1</sup>		11.8	43	20	9 x 8.5	02201		02202	02204	02207			
CPW PPMS IP	✓				✓ <sup>2</sup>					✓						12.9	12 x 9						00301 <sup>4</sup>	
CPW PPMS OOP	✓				✓ <sup>2</sup>					✓						15.3	11 x 7						00401 <sup>4</sup>	
CPW PPMS IP ISHE	✓	✓			✓					✓	✓ <sup>1</sup>					12.9	12 x 9						01001 <sup>4</sup>	
CPW PPMS bonding			✓		✓				✓							15.3	6 x 7						01801 <sup>4</sup>	
CPW MPMS IP	✓				✓ <sup>2</sup>					✓						8	6 x 6						01201 <sup>4</sup>	
CPW MPMS OOP	✓				✓ <sup>2</sup>					✓						8	4 x 2						01301 <sup>4</sup>	

**Legacy CPWs that can be fitted with non-magnetic connectors:**

CPW Standard v7	✓	✓			✓					✓			16	19	28	12 x 12	09101	09106	09102	09104	09105	09107		
CPW Standard ISHE v6	✓	✓	✓		✓					✓			20.6	19	30	14 x 11	09201	09206	09202	09204	09205	09207		
CPW large magnet v6	✓	✓			✓		✓	✓		✓			16.6	43	29	15 x 12	09801	09806	09802	09804	09805	09807		

<sup>1</sup> Next to the RF signal line there are contact pads with bumps raised 20 μm above the insulating layer for making electrical contact to the sample.

<sup>2</sup> Two CPWs (IP and OOP) are included with the FMR probes for the PPMS/Versalab and the MPMS3

<sup>3</sup> Non-magnetic end launch connectors are only available for the legacy (v6 and v7) CPWs. And only SMA and 2.4 mm types.

<sup>4</sup> Fitted with soldered coax cables with push-on connectors to fit the FMR probes for the PPMS/Versalab and the MPMS3 respectively.

<sup>5</sup> The current PhaseFMR software does not support motorized rotation nor extraction of angle variation of the FMR parameters.

