

LEICA Instrument EDM Specifications



Specs generally applicable 2007 onwards:

	Infra Red	Reflectorless	Model Information	Example models	Std Deviation (IR):	Std Deviation (RL):
Wavelength (Nm):	658	658	Viva series	TS11, TS12, TS13, TS15, TS16	1mm ± 1.5ppm	<500m:2mm ± 2ppm, >500m:4mm ± 2ppm
Frequency (MHz):	100 (99.90221353)	100	Nova series	MS50, MS60, TM50, TS60	TS/TM: 0.6mm ± 1ppm MS: 1mm ± 1.5ppm	
Unit Length (m):	1.5	1.5	Flexline series	TS02, TS03, TS06, TS07, TS09, TS10	1mm ± 1.5ppm TS02/06: 1.5mm ± 2ppm	
Reference Refractive Index:	1.000286338	1.000286338	System1200+ series	TCRP1203+, TCRA1205+, TM/TS30 (TC/TCR/TCRM/TCA/TCRA/TCP/TCRP)	1mm ± 1.5ppm TM/TS30: 0.6mm ± 1ppm	
C factor:	286.34	286.34	TC405	TC405	1mm ± 1.5ppm	
D factor:	80.68	80.68	TCR805	TCR805		

Specs generally applicable 2000 - 2007:

Wavelength (Nm):	780	670	System1200 series	TCRP1203, TCRA1201 (TC/TCR/TCRM/TCA/TCRA/TCP/TCRP)	2mm ± 2ppm	<500m:3mm ± 2ppm, >500m:5mm ± 2ppm
Frequency (MHz):	100 (99.90254202)	100	TPS1100 & 1100Plus	TCR1103, TCA1105, TCRA1101 (TC/TCR/TCRM/TCRA/TCR)		
Unit Length (m):	1.5	1.5	TCR803	TCR803		
Reference Refractive Index:	1.000283049	1.000283049	TCR703Auto	TCR703Auto		
C factor:	283.05	285.93	TPS400 series	TCR405		
D factor:	79.75	80.56	TPS300 & 100 series	TCR307, TC110		

Specs generally applicable 1995 - 2010:

Wavelength (Nm):	850	n/a	TPS5000 series	TM5000, TM5100A, TDA5005	0.2mm	n/a
Frequency (MHz):	50 (49.95133424)		TPS2000 series	TCA2003	1mm ± 1ppm	
Unit Length (m):	3		TPS1000 series	TCM1100, TCA1500, TCM1800	2mm ± 2ppm (except TC1800: 1mm ± 2ppm)	
Reference Refractive Index:	1.000281783					
C factor:	281.8					
D factor:	79.39					

Notes

ElLeica EDMs are all phase, not Pulse type

- Frequency shown in brackets & Reference Refractive Index supplied by ACT Government

- R = Reflectorless, M = Motorised, A or Auto = Automatic Target Recognition, P = PowerSearch, I = Imaging. The "M", "A", "P", "I" models are independent of the EDM types.

- The angular accuracy is designated in some model names but this has not always been the case. E.g. TC1105 was a 5 second model, TC1800 was a 1 second model.

- TPS1000 / TPS1100. The models of these 2 series of instruments can be confused. The TPS1000 series has a model named TC (M) (A)1100. The TPS1100 series model names all end with the angular accuracy eg TC1103.