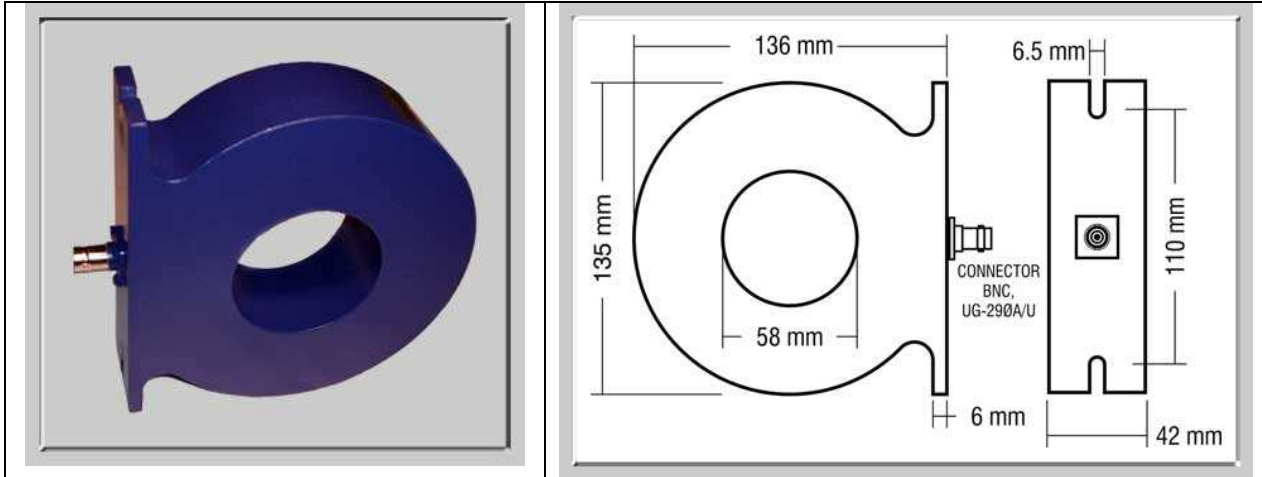


BROADBAND TERMINATED CURRENT TRANSFORMER DATA

Models 58D, 58M

These current transformers are designed for use as general laboratory instruments where band width and high-frequency response are to be combined with ease of use



TYPICAL VALUES Models 58D, 58M											
Model number	Output V/A(1)	RECTANGULAR PULSE				SINEWAVE			DC saturation current Isat A	Max. rms current Irms A	Peak current Ipeak A
		Droop %/ms	Rise time ns	I-t Capability		3dB Bandwidth		Ipeak/f A/Hz			
No bias mA s	With bias mA s			lf Hz	hf MHz						
58DH010	0.010	0.6	80	10000	19000	1	5	60	60	400	50000
58MH010	0.010	0.025	80	13000	24000	0.04	5	85	2.0	400	50000
58D0020	0.020	0.6	200	10000	18000	1	2	60	60	500	20000
58M0020	0.020	0.04	200	12000	20000	0.06	2	70	2	500	20000
58D0050	0.050	2.5	80	2500	4900	4.0	5	15	60	200	10000
58M0050	0.050	0.1	80	3400	6000	0.15	5	20	2.0	200	10000
58D0100	0.10	9	40	800	1400	15	10	4.0	60	100	5000
58DH100	0.10	30	20	250	450	50	20	1.5	60	100	5000
58M0100	0.10	0.3	40	1000	1800	0.5	10	6.0	2.0	100	5000
58MH100	0.10	1	20	300	500	1.5	20	2.0	2.0	100	5000
58D0200	0.20	60	20	120	230	90	20	0.8	60	50	2500
58M0200	0.20	2	20	150	280	4	20	1	2.0	50	2500
58M0500	0.50	9	20	40	70	15	20	0.2	2.0	20	1000
58M1000	1.0	40	20	10	18	55	20	0.06	2.0	12	500
58M5000	5.0	800	14	0.4	0.7	1500	30	0.002	2.0	2	100

Source impedance - All models have a source impedance of 50R

Load impedance - In the above tables this is assumed to be >50k

50R load - With a 50R load I-t capability is increased by between 20% and 80% and droop and lf cut-off point are reduced by a factor of 0.6 to 0.85. A 50R load at the receiver and a 50R line should be used where long cables are employed or where the highest frequency response is required.

Output - Accuracy +/-0.5% at mid-log frequency point, +/-2% within one decade of 3dB cut-off points. The use of a 50R load will halve the sensitivity

I-t No bias - Lilco broadband current transformers do not require the application any biasing current to achieve this level of I-t. The use of a 50R load will enhance the I-t capability significantly.

I-t with bias - these levels are achieved with a dc off-set current equal to Isat. The use of a 50R load will enhance the I-t capability further

58M0020 and 58D0020 -broadband current transformers satisfy the measurement demands of EN61000-4-11

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