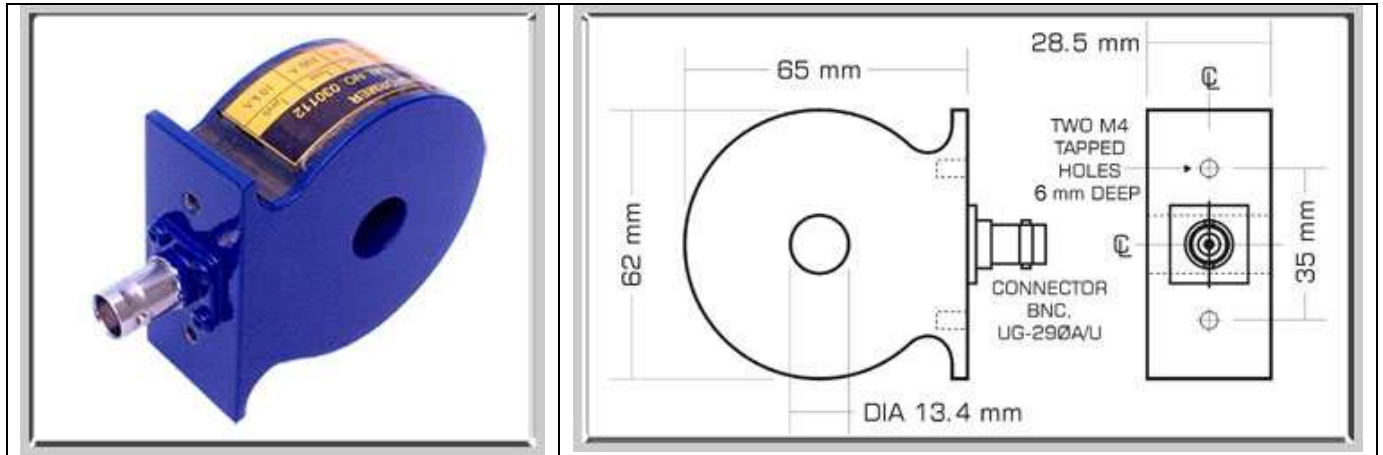


BROADBAND TERMINATED CURRENT TRANSFORMER DATA Models 13D, 13G, 13W

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 13D, 13G, 13W											
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(2)	If Hz	hf MHz				
13D0020	0.020	1.2	140	1800	3200	2	3	12	18	200	25000
13D0050	0.050	3	40	800	1500	5	10	5	18	100	10000
13G0050	0.050	0.25	40	1200	2200	0.5	10	8	3	100	10000
13W0050	0.050	0.04	40	500	900	0.1	10	3	0.15	100	10000
13D0100	0.10	10	16	250	450	15	25	1.7	18	60	5000
13G0100	0.10	1	16	400	700	1.6	25	2.5	3	60	5000
13W0100	0.10	0.15	16	150	250	0.3	25	0.9	0.15	60	5000
13D0200	0.20	30	14	70	130	60	30	0.4	18	33	2500
13G0200	0.20	4	14	100	200	10	30	0.7	3	33	2500
13W0200	0.20	0.6	14	40	70	1	30	0.25	0.15	33	2500
13D0500	0.50	170	10	13	25	220	40	0.08	18	14	1000
13G0500	0.50	20	10	15	30	35	40	0.12	3	14	1000
13W0500	0.50	3	10	7	13	5	40	0.04	0.15	14	1000
13D1000	1.0	700	7	3	5	1000	60	0.02	18	7	500
13G1000	1.0	70	7	4	8	130	60	0.03	3	7	500
13W1000	1.0	12	7	1.5	3	30	60	0.01	0.15	7	500
13W5000	5.0	240	4	0.06	0.11	400	100	0.0004	0.15	2	25

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 If 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

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