

Inductor Solutions for High Frequency Applications

Gowanda's flying lead (thru-hole) and SMT (surface mount) broadband conical inductors offer predictable frequency response and repeatable performance from 40 MHz to 50+ GHz with current ratings up to 10 Amps and <1% TML & <0.1 CVCm per ASTM E595 outgassing test. These conicals are specifically designed for high frequency applications where ultra-low insertion loss & return loss are design requirements. Their unique construction helps to limit the effects caused by stray capacitance. Reliability to M83446D, upscreening capability to MIL-STD-981, unique footprints and both standard & custom design options enhance utility. For assistance please call +1-716-532-2234 or email sales@gowanda.com.

PART NUMBER	TURNS	WIRE SIZE AWG	L μH	DCR Ω	CURRENT RATING mA DC	WIRE TYPE
SERIES C050FL						
C050FL2947G6	29	47	0.47	0.87	253	Copper
C050FL2144G6	21	44	0.28	0.45	250	Copper
SERIES C070FL						
Coming Soon!						
SERIES C085SM						
Coming Soon!						
SERIES C100FL						
C100FL4947G6	49	47	1.54	1.70	140	Copper
C100FL3944G6	39	44	1.00	0.74	211	Copper
C100FL3142G6	31	42	0.58	0.47	264	Copper
C100FL2540G6	25	40	0.37	0.21	396	Copper
C100FL1938G6	19	38	0.26	0.10	573	Copper
SERIES C100SMNL						
C100SMNL4847G6	49	47	1.54	1.70	140	Copper
C100SMNL3944G6	39	44	1.00	0.74	241	Copper
C100SMNL3142G6	31	42	0.69	0.47	302	Copper
C100SMNL2540G6	25	40	0.44	0.21	452	Copper
C100SMNL1938G6	19	38	0.20	0.10	655	Copper
SERIES C100SMNR						
C100SMNR4947G6	49	47	1.54	1.70	140	Copper
C100SMNR3944G6	39	44	1.00	0.74	241	Copper
C100SMNR3142G6	31	42	0.69	0.47	302	Copper
C100SMNR2540G6	25	40	0.44	0.21	452	Copper
C100SMNR1938G6	19	38	0.20	0.10	655	Copper
SERIES C102FL - NEW						
C102FL6047G6	60	47	3.8	3.70	182	Copper
C102FL4544G6	45	44	3.0	1.60	277	Copper
C102FL3442G6	34	42	1.10	0.64	438	Copper
C102FL2740G6	27	40	0.70	0.32	619	Copper
C102FL2238G6	22	38	0.47	0.19	815	Copper
SERIES C102SM - NEW						
C102SM6047G6	60	47	3.8	3.70	182	Copper
C102SM4544G6	45	44	3.0	1.60	277	Copper
C102SM3442G6	34	42	1.10	0.64	438	Copper
C102SM2740G6	27	40	0.70	0.32	619	Copper
C102SM2238G6	22	38	0.47	0.19	815	Copper
SERIES C182FL - NEW						
C182FL11047G6	110	47	10.7	7.10	150	Copper
C182FL7844G6	78	44	6.0	2.85	236	Copper
C182FL6042G6	60	42	3.3	1.29	350	Copper
C182FL4840G6	48	40	2.0	0.65	494	Copper
C182FL3638G6	36	38	1.47	0.33	694	Copper
SERIES C182SM - NEW						
C182SM11047G6	110	47	10.7	7.10	150	Copper
C182SM7844G6	78	44	6.0	2.85	236	Copper
C182SM6042G6	60	42	3.3	1.29	350	Copper
C182SM4840G6	48	40	2.0	0.65	494	Copper
C182SM3638G6	36	38	1.47	0.33	694	Copper

Please refer to individual series datasheets for complete information

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PART NUMBER	TURNS	WIRE SIZE AWG	L μ H	DCR Ω	CURRENT RATING mA DC	WIRE TYPE
SERIES C225FL						
C225FL11047G6	110	47	8.0	6.40	89	Copper
C225FL8544G6	85	44	5.1	2.60	139	Copper
C225FL7042G6	70	42	3.8	1.50	184	Copper
C225FL5740G6	57	40	2.4	0.80	251	Copper
C225FL4338G6	43	38	1.3	0.47	328	Copper
C225FL3536G6	35	36	0.89	0.39	360	Copper
C225FL2935G6	29	35	0.60	0.16	562	Copper
SERIES C225SM						
C225SM11047G6	110	47	8.0	6.40	116	Copper
C225SM8544G6	85	44	5.1	2.60	182	Copper
C225SM7042G6	70	42	3.6	1.50	239	Copper
C225SM5740G6	57	40	2.4	0.80	328	Copper
C225SM4338G6	43	38	1.3	0.47	428	Copper
C225SM3536G6	35	36	0.89	0.39	469	Copper
C225SM2935G6	29	35	0.60	0.16	733	Copper
C225SM2432G5	24	32	0.45	0.07	1100	Copper
SERIES C305FL						
C305FL3432C6	34	32	1.0	0.125	1300	Copper
C305FL2830C6	28	30	0.90	0.070	2000	Copper
C305FL2128C6	21	28	0.50	0.035	3500	Copper
C305FL1726C6	17	26	0.30	0.020	7200	Copper
SERIES C550FL						
C550FL3528C6	35	28	6.8	0.125	2200	Copper
C550FL3126C6	31	26	5.0	0.070	3000	Copper
C550FL2524C6	25	24	3.1	0.035	4500	Copper
C550FL1520C6	15	20	1.2	0.020	10500	Copper
SERIES C750FL						
C750FL5328C6	53	28	16.0	0.265	2200	Copper
C750FL4326C6	43	26	12.0	0.140	3000	Copper
C750FL3424C6	34	24	7.0	0.070	4100	Copper
C750FL2220C6	22	20	2.5	0.020	8100	Copper
SERIES C1000FL						
C1000FL5726C6	57	26	22.0	0.215	2700	Copper
C1000FL4524C6	45	24	13.0	0.110	3800	Copper
C1000FL2920C6	29	20	5.0	0.030	7700	Copper

Please refer to individual series datasheets for complete information

HOW TO ORDER GOWANDA CONICALS

FLYING LEAD

CXXXXFLXXXXG6

Conical Series Flying Turns Wire Termination
(core size) Lead Size

Example:

C225FL11047G6 = C225 Series Flying Lead with 110 turns of 47 Gauge wire and a Gold Termination.
C100FL4947G6 = C100 Series Flying Lead with 49 turns of 47 Gauge wire and a Gold Termination.
C305FL3432C6 = C305 Series Flying Lead with 34 turns of 32 Gauge wire and a Tin/Copper Termination.

SURFACE MOUNT

CXXXXSMXXXXG6

Conical Series Surface Turns Wire Termination
(core size) Mount Size

C225SM11047G6 = C225 Series Surface Mount with 110 turns of 47 Gauge wire and a Gold Termination.
C100SMNL4847G6 = C100 Series Surface Mount with 48 turns of 47 Gauge wire and a Gold Termination.