

## EPC3076G-X



### Features of the ER 11-6 Series

- Low Loss Material ensures operation in High Frequency Switching Converters such as Flyback, Buck, Boost Topology or as Coupled Inductors†
- Selected models can be used in Forward, Push-Pull or Half & Full Bridge Topology††
- Very Low Leakage Inductance
- 500 Vrms Isolations

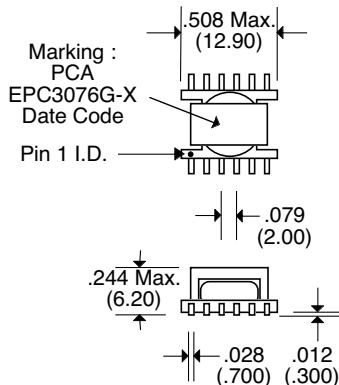
### Primary Specification : † For Flyback, Buck, Boost Topology or as Coupled Inductors

Part Number	Connection	DCR (Ω Max.)	Idc † (Amps)	Inductance (μH ± 20%) † @ 0 Adc	Inductance Change @ Idc (Typ.)	Vt 1 (V-μSec. Max.)	Temp. Rise @ Idc † (°C Typ.)
EPC3076G-1	Series	.344 xNs	1.35 /Ks	27.4 x(Ns) 2	14%	33 xNs	62
	Parallel	.344 /Np	1.35 /Kp	27.4	14%	33	62
	Single Wdg	.344	.55	27.4	1%	33	62
EPC3076G-2	Series	.145xNs	2.08 /Ks	12.2 x(Ns) 2	14%	22 xNs	62
	Parallel	.145 /Np	2.08 /Kp	12.2	14%	22	62
	Single Wdg	.145	.85	12.2	1%	22	62
EPC3076G-3	Series	.344 xNs	1.35 /Ks	14.7 x(Ns) 2	0%	33 xNs	62
	Parallel	.344 /Np	1.35 /Kp	14.7	0%	33	62
	Single Wdg	.344	.55	14.7	0%	33	62
EPC3076G-4	Series	.145xNs	2.08 /Ks	6.5 x(Ns) 2	0%	22 xNs	62
	Parallel	.145 /Np	2.08 /Kp	6.5	0%	22	62
	Single Wdg	.145	.85	6.5	0%	22	62
EPC3076G-5	Series	.344 xNs	1.35 /Ks	10.9 x(Ns) 2	0%	33 xNs	62
	Parallel	.344 /Np	1.35 /Kp	10.9	0%	33	62
	Single Wdg	.344	.55	10.9	0%	33	62
EPC3076G-6	Series	.145xNs	2.08 /Ks	4.9 x(Ns) 2	0%	22 xNs	62
	Parallel	.145 /Np	2.08 /Kp	4.9	0%	22	62
	Single Wdg	.145	.85	4.9	0%	22	62
EPC3076G-7	Series	.344 xNs	1.35 /Ks	8.5 x(Ns) 2	0%	33 xNs	62
	Parallel	.344 /Np	1.35 /Kp	8.5	0%	33	62
	Single Wdg	.344	.55	8.5	0%	33	62
EPC3076G-8	Series	.145xNs	2.08 /Ks	3.8 x(Ns) 2	0%	22 xNs	62
	Parallel	.145 /Np	2.08 /Kp	3.8	0%	22	62
	Single Wdg	.145	.85	3.8	0%	22	62

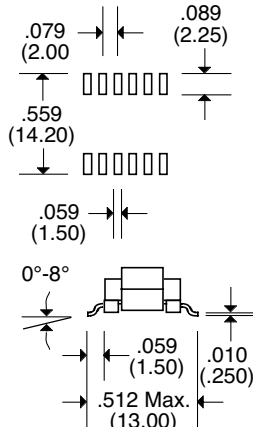
### Primary Specification : †† For Forward, Push-Pull, Half & Full Bridge Topology

Part Number	Connection	DCR (Ω Max.)	Irms ††	Inductance (μH ± 30%) ††	Temp. Rise @ Irms ††
EPC3076G-9	Series	.344 xNs	1.35 /Ks	201.6 x(Ns) 2	62
	Parallel	.344 /Np	1.35 /Kp	201.6	62
	Single Wdg	.344	.55	201.6	62
EPC3076G-10	Series	.145xNs	2.08 /Ks	89.6 x(Ns) 2	62
	Parallel	.145 /Np	2.08 /Kp	89.6	62
	Single Wdg	.145	.85	89.6	62

### Package ER 11-6



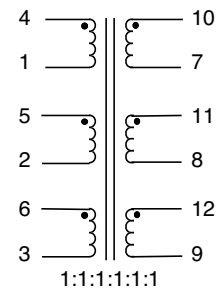
### Solder Pad Layout



### Notes :

1. Ns = Number of series connections
2. Np = Number of parallel connections
3. Ks = Ns x √6/Ns
4. Kp = √6/Np

### Schematic



Unless Otherwise Specified Dimensions are in Inches /mm ± .010 / .25