

The smarter way to energy efficiency

Aimed at improving energy efficiency and reducing carbon emissions, GreenChip technology lies at the heart of our cost-effective, high-efficiency power ICs. GreenChip products are suitable for any device that draws AC power and offer many additional benefits, from minimal standby power (as low as 10 mW) to high-power applications based on resonant architectures above 90 W.

AC-DC controllers

Type number	Package name	Topology	f_{osc} (kHz)	f_{burst} (Hz)	V_{CC} [max] (V)	Softstart	Cable comp max. load (mV)	Features
TEA1708T	SO8	X-cap discharge						
TEA1720A3T	SO8	Flyback / Buck	50.5	200	35	Y	300	Burst mode; Safe Restart
TEA1720A4T	SO8	Flyback / Buck	50.5	200	35	Y	450	Burst mode; Safe Restart
TEA1731LTS	TSOP6	Flyback / Buck	27.5 / 65 / 82		30	Y		Latched; VCO mode
TEA1731TS	TSOP6	Flyback / Buck	26.5 / 65 / 80		30	Y		Safe Restart; VCO mode
TEA1733AT	SO8	Flyback / Buck	91.5		30	Y		Safe Restart; VCO mode
TEA1733BT	SO8	Flyback / Buck	123		30	Y		Safe Restart; VCO mode
TEA1733CP	DIP8	Flyback / Buck	66.5		30	Y		Safe Restart; VCO mode
TEA1733CT	SO8	Flyback / Buck	66.5		30	Y		Safe Restart; VCO mode
TEA1733LT	SO8	Flyback / Buck	66.5		30	Y		Latched; VCO mode
TEA1733P	DIP8	Flyback / Buck	66.5		30	Y		Safe Restart; VCO mode
TEA1733T	SO8	Flyback / Buck	66.5		30	Y		Safe Restart; VCO mode
TEA1738FT	SO8	Flyback / Buck	26.5 / 63 / 78		30	Y		Safe Restart; VCO mode
TEA1738GT	SO8	Flyback / Buck	26.5 / 63 / 118		30	Y		Safe Restart; VCO mode
TEA1738LT	SO8	Flyback / Buck	26.5 / 63 / 78		30	Y		Latched; VCO mode
TEA1738T	SO8	Flyback / Buck	26.5 / 63 / 78		30	Y		Safe Restart; VCO mode

AC-DC controllers with integrated PFC

Type number	Package name	Topology	f_{osc} (kHz)	V_{CC} [max] (V)	(Overload) protection	Softstart	R_{dson} (Ohm) / internal switch	Burst/VCO mode
TEA1713T	SO24	PFC + Resonant	670 / 125	38	Safe Restart	Y	-	Burst mode
TEA1716T	SO24	PFC + Resonant	670 / 125	38	Safe Restart	Y	-	Burst mode
TEA1751T	SO16	QR PFC + QR Flyback	125 / 125	38	Safe Restart	Y	-	VCO mode
TEA1751LT	SO16	QR PFC + QR Flyback	125 / 125	38	Latched	Y	-	VCO mode
TEA1752T	SO16	QR PFC + QR Flyback	250 / 125	38	Safe Restart	Y	-	VCO mode
TEA1752LT	SO16	QR PFC + QR Flyback	250 / 125	38	Latched	Y	-	VCO mode
TEA1753T	SO16	QR PFC + QR Flyback	250 / 125	38	Safe Restart	Y	-	VCO mode
TEA1753LT	SO16	QR PFC + QR Flyback	250 / 125	38	Latched	Y	-	VCO mode
TEA1755T	SO16	QR PFC + QR Flyback	139 / 130	38	Safe Restart	Y		VCO mode
TEA1755LT	SO16	QR PFC + QR Flyback	139 / 130	38	Latched	Y		VCO mode



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AC-DC controllers with integrated power switch

Type number	Package name	Topology	f _{osc} (kHz)	f _{burst} (Hz)	V _{CC} [max] (V)	Softstart	R _{dson} (Ohm) / internal switch	Features
TEA1721AT	SO7	Flyback / Buck	50.5	430	35	Y	15.5	Burst mode; Safe Restart
TEA1721BT	SO7	Flyback / Buck	50.5	905	35	Y	15.5	Burst mode; Safe Restart
TEA1721DT	SO7	Flyback / Buck	50.5	1270	35	Y	15.5	Burst mode; Safe Restart
TEA1721FT	SO7	Flyback / Buck	50.5	1750	35	Y	15.5	Burst mode; Safe Restart
TEA1723AT	SO7	Flyback / Buck	50.5	430	35	Y	4.8	Burst mode; Safe Restart
TEA1723BT	SO7	Flyback / Buck	50.5	905	35	Y	4.8	Burst mode; Safe Restart
TEA1723DT	SO7	Flyback / Buck	50.5	1270	35	Y	4.8	Burst mode; Safe Restart
TEA1723FT	SO7	Flyback / Buck	50.5	1750	35	Y	4.8	Burst mode; Safe Restart

Secondary side controllers

Type number	Package name	Topology	Feedback control integrated	Minimum SR active time (μs)	Driver activation voltage (mV)	Driver regulation voltage (mV)	Driver deactivation voltage (mV)	Driver activation delay time (ns)
TEA1703T	SO8	Standby Control	N	-	-	-	-	-
TEA1703TS	TSOP6	Standby Control	N	-	-	-	-	-
TEA1705	TO-236AB	Transient Controller	N					
TEA1761T	SO8	Synchronous Rectification	Y	2	-310	-55	-12	125
TEA1762T	SO14	Synchronous Rectification	Y	2	-310	-55	-12	125
TEA1791T	SO8	Synchronous Rectification	N	2	-310	-55	-12	125
TEA1791AT	SO8	Synchronous Rectification	N	0.93	-310	-55	-12	125
TEA1792T	SO8	Synchronous Rectification	N	1.8	-220	-42	-12	75
TEA1792TS	TSOP6	Synchronous Rectification	N	1.8	-220	-42	-12	75
TEA1792AT	SO8	Synchronous Rectification	N	0.8	-220	-42	-12	75
TEA1792ATS	TSOP6	Synchronous Rectification	N	0.8	-220	-42	-12	75
TEA1795T	SO8	Dual Synchronous Rectification	N	0.52	-220	-25	-12	100

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