

LEADLESS INDUCTORS

PTV SERIES

PTV25 TYPE

PTV32 TYPE

PTCV25 TYPE

PTCV32 TYPE

PIOTECH ENTERPRISE CO.,LTD

Features

This product supports for lead-free solder re-flow condition.

Lead-free materials are used to terminal plating

Electrical characteristics and reliability are same as current PT series.

This product use metal terminal, therefore it is high connection reliability.

Thermoplastic resin is used for outer material

Product name

PTV32T-XXXJ-PF

PTV25T-XXXJ-PF

PTCV32T-XXXJ-PF

PTCV25T-XXXJ-PF

Application

For universal inductance circuit use

AV components, Car-electronics, IT equipment, Car-electronics, etc.

Specification

Series lineup

PTV32 TYPE[Normal type] :0.01 to 470uH /E-12 Series

PTV25 TYPE[More Small/Normal type] :0.01 to 100uH /E-12 Series

PTCV32 TYPE[Large Current type] :1 to 330uH /E-6 Series

PTCV25 TYPE[More Small/Large Current type] :1 to 33uH /E-6 Series

*The details please refer to electrical characteristics page.

Temperature Characteristics

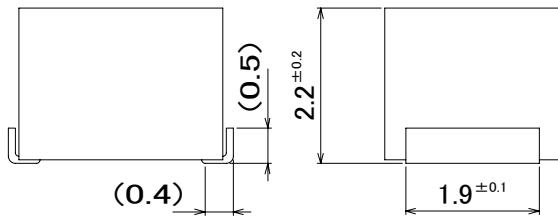
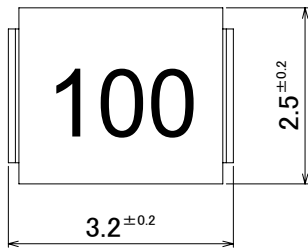
Storage temperature : -40degrees to +85degrees

Operating temperature : -40degrees to +85degrees

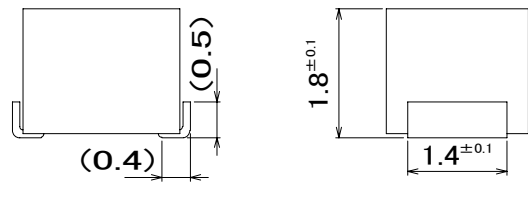
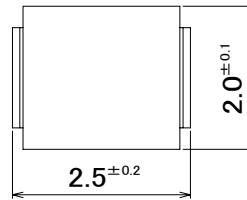
Self temperature rise : 20degrees MAX. (In maximum rating current load)

Shape and dimensions

PTV32 TYPE
PTCV32 TYPE

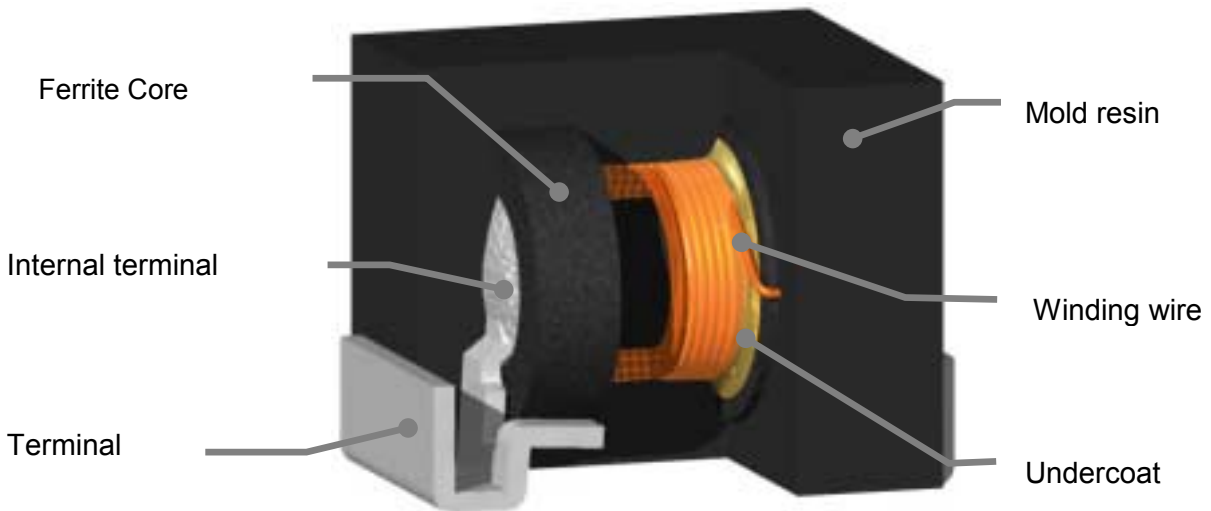


PTV25 TYPE
PTCV25 TYPE



*PTV25 type and a PTCV25 type increase with a mark-less design.

Construction



Electrical characteristics

PTV32 TYPE [Normal type]

PT ITEM NAME	L(μ H) +5%	Q Min.	TestFreq (MHz)	SRF(MHz) Min.	Rdc(ohm) Max.	Idc(mA) Max.
PTV32T-010J-PF	0.010	15	100	2500	0.13	450
PTV32T-012J-PF	0.012	17	100	2300	0.14	450
PTV32T-015J-PF	0.015	19	100	2100	0.16	450
PTV32T-018J-PF	0.018	21	100	1900	0.18	450
PTV32T-022J-PF	0.022	23	100	1700	0.20	450
PTV32T-027J-PF	0.027	23	100	1500	0.22	450
PTV32T-033J-PF	0.033	25	100	1400	0.24	450
PTV32T-039J-PF	0.039	25	100	1300	0.27	450
PTV32T-047J-PF	0.047	26	100	1200	0.30	450
PTV32T-056J-PF	0.056	26	100	1100	0.33	450
PTV32T-068J-PF	0.068	27	100	1000	0.36	450
PTV32T-082J-PF	0.082	27	100	900	0.40	450
PTV32T-R10J-PF	0.10	28	100	700	0.44	450
PTV32T-R12J-PF	0.12	30	25.2	500	0.22	450
PTV32T-R15J-PF	0.15	30	25.2	450	0.25	450
PTV32T-R18J-PF	0.18	30	25.2	400	0.28	450
PTV32T-R22J-PF	0.22	30	25.2	350	0.32	450
PTV32T-R27J-PF	0.27	30	25.2	320	0.36	450
PTV32T-R33J-PF	0.33	30	25.2	300	0.40	450
PTV32T-R39J-PF	0.39	30	25.2	250	0.45	450
PTV32T-R47J-PF	0.47	30	25.2	220	0.50	450
PTV32T-R56J-PF	0.56	30	25.2	180	0.55	450
PTV32T-R68J-PF	0.68	30	25.2	160	0.60	450
PTV32T-R82J-PF	0.82	30	25.2	140	0.65	450

Test equipment

L,Q : HP4191A RF IMPEDANCE ANALYZER + 16092A + TF-2 (at 100MHz)

HP4194A IMPEDANCE ANALYZER + 16085A + 16093B + TF-1

SRF : HP8753C NETWORK ANAZYZER

Rdc : VP-2941A DIGITAL MILLIOHM METER MATSUSHITA

Electrical characteristics

PTV32 TYPE [Normal type]

PT	ITEM NAME	L(μ H) +/-5%	Q Min.	TestFreq (MHz)	SRF(MHz) Min.	Rdc(ohm) Max.	Idc(mA) Max.
	PTV32T-1R0J-PF	1.0	30	7.96	120	0.70	400
	PTV32T-1R2J-PF	1.2	30	7.96	100	0.75	390
	PTV32T-1R5J-PF	1.5	30	7.96	85	0.85	370
	PTV32T-1R8J-PF	1.8	30	7.96	80	0.90	350
	PTV32T-2R2J-PF	2.2	30	7.96	75	1.00	320
	PTV32T-2R7J-PF	2.7	30	7.96	70	1.10	290
	PTV32T-3R3J-PF	3.3	30	7.96	60	1.20	260
	PTV32T-3R9J-PF	3.9	30	7.96	55	1.30	250
	PTV32T-4R7J-PF	4.7	30	7.96	50	1.50	220
	PTV32T-5R6J-PF	5.6	30	7.96	45	1.60	200
	PTV32T-6R8J-PF	6.8	30	7.96	40	1.80	180
	PTV32T-8R2J-PF	8.2	30	7.96	35	2.00	170
	PTV32T-100J-PF	10	30	2.52	30	2.10	150
	PTV32T-120J-PF	12	30	2.52	20	2.50	140
	PTV32T-150J-PF	15	30	2.52	20	2.80	130
	PTV32T-180J-PF	18	30	2.52	20	3.30	120
	PTV32T-220J-PF	22	30	2.52	20	3.70	110
	PTV32T-270J-PF	27	30	2.52	20	5.00	80
	PTV32T-330J-PF	33	30	2.52	17	5.60	70
	PTV32T-390J-PF	39	30	2.52	16	6.40	65
	PTV32T-470J-PF	47	30	2.52	15	7.00	60
	PTV32T-560J-PF	56	30	2.52	13	8.00	55
	PTV32T-680J-PF	68	30	2.52	12	9.00	50
	PTV32T-820J-PF	82	30	2.52	11	10.00	45
	PTV32T-101J-PF	100	20	0.796	10	10.00	40
	PTV32T-121J-PF	120	20	0.796	10	11.00	70
	PTV32T-151J-PF	150	20	0.796	8	15.00	65
	PTV32T-181J-PF	180	20	0.796	7	17.00	60
	PTV32T-221J-PF	220	20	0.796	7	21.00	50
	PTV32T-271J-PF	270	20	0.796	6	28.00	45
	PTV32T-331J-PF	330	20	0.796	5	34.00	40
	PTV32T-391J-PF	390	20	0.796	5	36.00	35
	PTV32T-471J-PF	470	20	0.796	4	40.00	25

Test equipment

L,Q : HP4194A IMPEDANCE ANALYZER + 16085A + 16093B + TF-1

SRF : HP8753C NETWORK ANAZYZER

Rdc : VP-2941A DIGITAL MILLIOHM METER MATSUSHITA

Electrical characteristics

PTV25 TYPE [More Small / Normal type]

PT ITEM NAME	L(μ H) +5%	Q Min.	TestFreq (MHz)	SRF(MHz) Min.	Rdc(ohm) Max.	Idc(mA) Max.
PTV25T-010J-PF	0.010	15	100	2150	0.26	530
PTV25T-012J-PF	0.012	15	100	2050	0.27	500
PTV25T-015J-PF	0.015	15	100	2000	0.29	480
PTV25T-018J-PF	0.018	15	100	1850	0.31	450
PTV25T-022J-PF	0.022	15	100	1650	0.37	420
PTV25T-027J-PF	0.027	15	100	1550	0.40	410
PTV25T-033J-PF	0.033	20	100	1450	0.42	400
PTV25T-039J-PF	0.039	20	100	1350	0.45	380
PTV25T-047J-PF	0.047	20	100	1200	0.50	360
PTV25T-056J-PF	0.056	20	100	1100	0.60	340
PTV25T-068J-PF	0.068	20	100	1050	0.65	320
PTV25T-082J-PF	0.082	20	100	900	0.75	300
PTV25T-R10J-PF	0.10	20	100	800	0.80	280
PTV25T-R12J-PF	0.12	30	25.2	700	0.30	550
PTV25T-R15J-PF	0.15	30	25.2	550	0.35	500
PTV25T-R18J-PF	0.18	30	25.2	500	0.40	460
PTV25T-R22J-PF	0.22	30	25.2	450	0.50	430
PTV25T-R27J-PF	0.27	30	25.2	425	0.55	420
PTV25T-R33J-PF	0.33	30	25.2	400	0.60	400
PTV25T-R39J-PF	0.39	30	25.2	375	0.65	375
PTV25T-R47J-PF	0.47	30	25.2	350	0.68	350
PTV25T-R56J-PF	0.56	30	25.2	325	0.75	325
PTV25T-R68J-PF	0.68	30	25.2	300	0.85	300
PTV25T-R82J-PF	0.82	30	25.2	260	1.00	260

Test equipment

L,Q : HP4191A RF IMPEDANCE ANALYZER + 16092A + TF-2 (at 100MHz)

HP4194A IMPEDANCE ANALYZER + 16085A + 16093B + TF-1

SRF : HP8753C NETWORK ANAZYZER

Rdc : VP-2941A DIGITAL MILLIOHM METER MATSUSHITA

Electrical characteristics

PTV25 TYPE [More Small / Normal type]

PT ITEM NAME	L(uH) +-5%	Q Min.	TestFreq (MHz)	SRF(MHz) Min.	Rdc(ohm) Max.	Idc(mA) Max.
PTV25T-1R0J-PF	1.0	30	7.96	245	1.10	245
PTV25T-1R2J-PF	1.2	30	7.96	230	1.20	230
PTV25T-1R5J-PF	1.5	30	7.96	182	1.30	220
PTV25T-1R8J-PF	1.8	30	7.96	135	1.45	210
PTV25T-2R2J-PF	2.2	30	7.96	105	1.55	200
PTV25T-2R2J-PF	2.7	30	7.96	70	1.70	195
PTV25T-3R3J-PF	3.3	30	7.96	55	1.90	185
PTV25T-3R9J-PF	3.9	30	7.96	48	2.10	180
PTV25T-4R7J-PF	4.7	30	7.96	43	2.30	175
PTV25T-5R6J-PF	5.6	25	7.96	42	2.50	170
PTV25T-6R8J-PF	6.8	25	7.96	39	2.70	165
PTV25T-8R2J-PF	8.2	25	7.96	36	3.05	160
PTV25T-100J-PF	10	25	2.52	33	3.50	155
PTV25T-120J-PF	12	25	2.52	30	3.80	150
PTV25T-150J-PF	15	25	2.52	26	4.40	140
PTV25T-180J-PF	18	25	2.52	24	4.80	130
PTV25T-220J-PF	22	25	2.52	22	5.50	125
PTV25T-270J-PF	27	25	2.52	21	6.30	115
PTV25T-330J-PF	33	25	2.52	20	7.10	110
PTV25T-390J-PF	39	20	2.52	18	9.50	90
PTV25T-470J-PF	47	20	2.52	17	11.1	80
PTV25T-560J-PF	56	20	2.52	16	12.1	75
PTV25T-680J-PF	68	20	2.52	15	16.6	70
PTV25T-820J-PF	82	20	2.52	13	19.0	66
PTV25T-101J-PF	100	15	0.796	12	21.0	60

Test equipment

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