

Part PTHF100R-40 SM		Check Stock
Series	PTHFR-SM	
Type	Power Inductors	
Description	Surface Mount Toroidal Power Choke - RoHS	
Mounting	Surface Mount	
Shielded	Yes	
QPL	No	
COTS	No	
ROHS	Yes	
MIL No.	Not Applicable	
Length	0.57 inches	
Width	0.56 inches	
Height	0.4 inches	
Lead Length		
Weight		
Inductance	100 μ H	
Tolerance	± 10	
Q		
SRF		
DCR	0.16 Ω	
Max Current	1600 mA	
Inc Current	1100 mA	
Inc Current %	10 %	
Ind Test Freq	0.001 MHz	
Q Test Freq		
Core	High Saturation	
Sleeve	Toroid Core	

Part PTHF100R-50 SM		Check Stock
Series	PTHER-SM	
Type	Power Inductors	
Description	Surface Mount Toroidal Power Choke - RoHS	
Mounting	Surface Mount	
Shielded	Yes	
QPL	No	
COTS	No	
ROHS	Yes	
MIL No.	Not Applicable	
Length	0.7 inches	
Width	0.67 inches	
Height	0.4 inches	
Lead Length		
Weight		
Inductance	100 μ H	
Tolerance	± 10	
Q		
SRF		
DCR	0.06 Ω	
Max Current	3140 mA	
Inc Current	1500 mA	
Inc Current %	10 %	
Ind Test Freq	0.001 MHz	
Q Test Freq		
Core	High Saturation	
Sleeve	Toroid Core	

Part PTHF10R-50SM		Check Stock
Series	PTHER-SM	
Type	Power Inductors	
Description	Surface Mount Toroidal Power Choke - RoHS	
Mounting	Surface Mount	
Shielded	Yes	
QPL	No	
COTS	No	
ROHS	Yes	
MIL No.	Not Applicable	
Length	0.7 inches	
Width	0.67 inches	
Height	0.4 inches	
Lead Length		
Weight		
Inductance	10 μ H	
Tolerance	± 10	
Q		
SRF		
DCR	0.01 Ω	
Max Current	7360 mA	
Inc Current	6000 mA	
Inc Current %	10 %	
Ind Test Freq	0.001 MHz	
Q Test Freq		
Core	High Saturation	
Sleeve	Toroid Core	

Part PTHF50R-40 SM		Check Stock
Series	PTHFR-SM	
Type	Power Inductors	
Description	Surface Mount Toroidal Power Choke - RoHS	
Mounting	Surface Mount	
Shielded	Yes	
QPL	No	
COTS	No	
ROHS	Yes	
MIL No.	Not Applicable	
Length	0.57 inches	
Width	0.56 inches	
Height	0.4 inches	
Lead Length		
Weight		
Inductance	50 μ H	
Tolerance	± 10	
Q		
SRF		
DCR	0.11 Ω	
Max Current	1900 mA	
Inc Current	1700 mA	
Inc Current %	10 %	
Ind Test Freq	0.001 MHz	
Q Test Freq		
Core	High Saturation	
Sleeve	Toroid Core	

Part PTHF25R-50 SM		Check Stock
Series	PTHER-SM	
Type	Power Inductors	
Description	Surface Mount Toroidal Power Choke - RoHS	
Mounting	Surface Mount	
Shielded	Yes	
QPL	No	
COTS	No	
ROHS	Yes	
MIL No.	Not Applicable	
Length	0.7 inches	
Width	0.67 inches	
Height	0.4 inches	
Lead Length		
Weight		
Inductance	25 μ H	
Tolerance	$\pm$ 10	
Q		
SRF		
DCR	0.02 Ω	
Max Current	5200 mA	
Inc Current	3600 mA	
Inc Current %	10 %	
Ind Test Freq	0.001 MHz	
Q Test Freq		
Core	High Saturation	
Sleeve	Toroid Core	

Part PTHF25R-30 SM		Check Stock
Series	PTHFR-SM	
Type	Power Inductors	
Description	Surface Mount Toroidal Power Choke - RoHS	
Mounting	Surface Mount	
Shielded	Yes	
QPL	No	
COTS	No	
ROHS	Yes	
MIL No.	Not Applicable	
Length	0.44 inches	
Width	0.44 inches	
Height	0.4 inches	
Lead Length		
Weight		
Inductance	25 μ H	
Tolerance	$\pm$ 10	
Q		
SRF		
DCR	0.07 Ω	
Max Current	2160 mA	
Inc Current	1400 mA	
Inc Current %	10 %	
Ind Test Freq	0.001 MHz	
Q Test Freq		
Core	High Saturation	
Sleeve	Toroid Core	

Part PTHF25R-40 SM		Check Stock
Series	PTHER-SM	
Type	Power Inductors	
Description	Surface Mount Toroidal Power Choke - RoHS	
Mounting	Surface Mount	
Shielded	Yes	
QPL	No	
COTS	No	
ROHS	Yes	
MIL No.	Not Applicable	
Length	0.57 inches	
Width	0.56 inches	
Height	0.4 inches	
Lead Length		
Weight		
Inductance	25 μ H	
Tolerance	± 10	
Q		
SRF		
DCR	0.04 Ω	
Max Current	3380 mA	
Inc Current	2200 mA	
Inc Current %	10 %	
Ind Test Freq	0.001 MHz	
Q Test Freq		
Core	High Saturation	
Sleeve	Toroid Core	

Part PTHF10R-180SM		Check Stock
Series	PTHER-SM	
Type	Power Inductors	
Description	Surface Mount Toroidal Power Choke - RoHS	
Mounting	Surface Mount	
Shielded	Yes	
QPL	No	
COTS	No	
ROHS	Yes	
MIL No.	Not Applicable	
Length	0.34 inches	
Width	0.34 inches	
Height	0.3 inches	
Lead Length		
Weight		
Inductance	10 μ H	
Tolerance	± 10	
Q		
SRF		
DCR	0.1 Ω	
Max Current	1600 mA	
Inc Current	900 mA	
Inc Current %	10 %	
Ind Test Freq	0.001 MHz	
Q Test Freq		
Core	High Saturation	
Sleeve	Toroid Core	

Part PTHF50R-180SM		Check Stock
Series	PTHER-SM	
Type	Power Inductors	
Description	Surface Mount Toroidal Power Choke - RoHS	
Mounting	Surface Mount	
Shielded	Yes	
QPL	No	
COTS	No	
ROHS	Yes	
MIL No.	Not Applicable	
Length	0.34 inches	
Width	0.34 inches	
Height	0.3 inches	
Lead Length		
Weight		
Inductance	50 μ H	
Tolerance	$\pm$ 10	
Q		
SRF		
DCR	0.21 Ω	
Max Current	1120 mA	
Inc Current	400 mA	
Inc Current %	10 %	
Ind Test Freq	0.001 MHz	
Q Test Freq		
Core	High Saturation	
Sleeve	Toroid Core	

Part PTHF50R-50 SM		Check Stock
Series	PTHER-SM	
Type	Power Inductors	
Description	Surface Mount Toroidal Power Choke - RoHS	
Mounting	Surface Mount	
Shielded	Yes	
QPL	No	
COTS	No	
ROHS	Yes	
MIL No.	Not Applicable	
Length	0.7 inches	
Width	0.67 inches	
Height	0.4 inches	
Lead Length		
Weight		
Inductance	50 μ H	
Tolerance	± 10	
Q		
SRF		
DCR	0.04 Ω	
Max Current	3930 mA	
Inc Current	2000 mA	
Inc Current %	10 %	
Ind Test Freq	0.001 MHz	
Q Test Freq		
Core	High Saturation	
Sleeve	Toroid Core	

Part PTHF10R-30SM		Check Stock
Series	PTHER-SM	
Type	Power Inductors	
Description	Surface Mount Toroidal Power Choke - RoHS	
Mounting	Surface Mount	
Shielded	Yes	
QPL	No	
COTS	No	
ROHS	Yes	
MIL No.	Not Applicable	
Length	0.44 inches	
Width	0.44 inches	
Height	0.4 inches	
Lead Length		
Weight		
Inductance	10 μ H	
Tolerance	± 10	
Q		
SRF		
DCR	0.05 Ω	
Max Current	2560 mA	
Inc Current	2200 mA	
Inc Current %	10 %	
Ind Test Freq	0.001 MHz	
Q Test Freq		
Core	High Saturation	
Sleeve	Toroid Core	

Part PTHF50R-30 SM		Check Stock
Series	PTHER-SM	
Type	Power Inductors	
Description	Surface Mount Toroidal Power Choke - RoHS	
Mounting	Surface Mount	
Shielded	Yes	
QPL	No	
COTS	No	
ROHS	Yes	
MIL No.	Not Applicable	
Length	0.44 inches	
Width	0.44 inches	
Height	0.4 inches	
Lead Length		
Weight		
Inductance	50 μ H	
Tolerance	± 10	
Q		
SRF		
DCR	0.1 Ω	
Max Current	1810 mA	
Inc Current	1200 mA	
Inc Current %	10 %	
Ind Test Freq	0.001 MHz	
Q Test Freq		
Core	High Saturation	
Sleeve	Toroid Core	

Part PTHF10R-40SM		Check Stock
Series	PTHFR-SM	
Type	Power Inductors	
Description	Surface Mount Toroidal Power Choke - RoHS	
Mounting	Surface Mount	
Shielded	Yes	
QPL	No	
COTS	No	
ROHS	Yes	
MIL No.	Not Applicable	
Length	0.57 inches	
Width	0.56 inches	
Height	0.4 inches	
Lead Length		
Weight		
Inductance	10 μ H	
Tolerance	$\pm$ 10	
Q		
SRF		
DCR	0.02 Ω	
Max Current	4840 mA	
Inc Current	3800 mA	
Inc Current %	10 %	
Ind Test Freq	0.001 MHz	
Q Test Freq		
Core	High Saturation	
Sleeve	Toroid Core	

Part PTHF25R-180 SM		Check Stock
Series	PTHER-SM	
Type	Power Inductors	
Description	Surface Mount Toroidal Power Choke - RoHS	
Mounting	Surface Mount	
Shielded	Yes	
QPL	No	
COTS	No	
ROHS	Yes	
MIL No.	Not Applicable	
Length	0.34 inches	
Width	0.34 inches	
Height	0.3 inches	
Lead Length		
Weight		
Inductance	25 μ H	
Tolerance	$\pm$ 10	
Q		
SRF		
DCR	0.15 Ω	
Max Current	1330 mA	
Inc Current	600 mA	
Inc Current %	10 %	
Ind Test Freq	0.001 MHz	
Q Test Freq		
Core	High Saturation	
Sleeve	Toroid Core	

Part PTHF250R-40 SM		Check Stock
Series	PTHFR-SM	
Type	Power Inductors	
Description	Surface Mount Toroidal Power Choke - RoHS	
Mounting	Surface Mount	
Shielded	Yes	
QPL	No	
COTS	No	
ROHS	Yes	
MIL No.	Not Applicable	
Length	0.57 inches	
Width	0.56 inches	
Height	0.4 inches	
Lead Length		
Weight		
Inductance	250 μ H	
Tolerance	± 10	
Q		
SRF		
DCR	0.36 Ω	
Max Current	1050 mA	
Inc Current	700 mA	
Inc Current %	10 %	
Ind Test Freq	0.001 MHz	
Q Test Freq		
Core	High Saturation	
Sleeve	Toroid Core	

Part PTHF150R-40 SM		Check Stock
Series	PTHFR-SM	
Type	Power Inductors	
Description	Surface Mount Toroidal Power Choke - RoHS	
Mounting	Surface Mount	
Shielded	Yes	
QPL	No	
COTS	No	
ROHS	Yes	
MIL No.	Not Applicable	
Length	0.57 inches	
Width	0.56 inches	
Height	0.4 inches	
Lead Length		
Weight		
Inductance	150 μ H	
Tolerance	$\pm$ 10	
Q		
SRF		
DCR	0.19 Ω	
Max Current	1450 mA	
Inc Current	900 mA	
Inc Current %	10 %	
Ind Test Freq	0.001 MHz	
Q Test Freq		
Core	High Saturation	
Sleeve	Toroid Core	

Part PTHF150R-50 SM		Check Stock
Series	PTHER-SM	
Type	Power Inductors	
Description	Surface Mount Toroidal Power Choke - RoHS	
Mounting	Surface Mount	
Shielded	Yes	
QPL	No	
COTS	No	
ROHS	Yes	
MIL No.	Not Applicable	
Length	0.7 inches	
Width	0.67 inches	
Height	0.4 inches	
Lead Length		
Weight		
Inductance	150 μ H	
Tolerance	± 10	
Q		
SRF		
DCR	0.1 Ω	
Max Current	2330 mA	
Inc Current	1200 mA	
Inc Current %	10 %	
Ind Test Freq	0.001 MHz	
Q Test Freq		
Core	High Saturation	
Sleeve	Toroid Core	

Part PTHF75R-50 SM		Check Stock
Series	PTHER-SM	
Type	Power Inductors	
Description	Surface Mount Toroidal Power Choke - RoHS	
Mounting	Surface Mount	
Shielded	Yes	
QPL	No	
COTS	No	
ROHS	Yes	
MIL No.	Not Applicable	
Length	0.7 inches	
Width	0.67 inches	
Height	0.4 inches	
Lead Length		
Weight		
Inductance	75 μ H	
Tolerance	± 10	
Q		
SRF		
DCR	0.05 Ω	
Max Current	3470 mA	
Inc Current	1600 mA	
Inc Current %	10 %	
Ind Test Freq	0.001 MHz	
Q Test Freq		
Core	High Saturation	
Sleeve	Toroid Core	

Part PTHF200R-40 SM		Check Stock
Series	PTHFR-SM	
Type	Power Inductors	
Description	Surface Mount Toroidal Power Choke - RoHS	
Mounting	Surface Mount	
Shielded	Yes	
QPL	No	
COTS	No	
ROHS	Yes	
MIL No.	Not Applicable	
Length	0.57 inches	
Width	0.56 inches	
Height	0.4 inches	
Lead Length		
Weight		
Inductance	200 μ H	
Tolerance	± 10	
Q		
SRF		
DCR	0.32 Ω	
Max Current	1120 mA	
Inc Current	700 mA	
Inc Current %	10 %	
Ind Test Freq	0.001 MHz	
Q Test Freq		
Core	High Saturation	
Sleeve	Toroid Core	

Part PTHF200R-30 SM		Check Stock
Series	PTHER-SM	
Type	Power Inductors	
Description	Surface Mount Toroidal Power Choke - RoHS	
Mounting	Surface Mount	
Shielded	Yes	
QPL	No	
COTS	No	
ROHS	Yes	
MIL No.	Not Applicable	
Length	0.44 inches	
Width	0.44 inches	
Height	0.4 inches	
Lead Length		
Weight		
Inductance	200 μ H	
Tolerance	± 10	
Q		
SRF		
DCR	0.3 Ω	
Max Current	1040 mA	
Inc Current	500 mA	
Inc Current %	10 %	
Ind Test Freq	0.001 MHz	
Q Test Freq		
Core	High Saturation	
Sleeve	Toroid Core	

Part PTHF75R-40SM		Check Stock
Series	PTHER-SM	
Type	Power Inductors	
Description	Surface Mount Toroidal Power Choke - RoHS	
Mounting	Surface Mount	
Shielded	Yes	
QPL	No	
COTS	No	
ROHS	Yes	
MIL No.	Not Applicable	
Length	0.57 inches	
Width	0.56 inches	
Height	0.4 inches	
Lead Length		
Weight		
Inductance	75 μ H	
Tolerance	± 10	
Q		
SRF		
DCR	0.14 Ω	
Max Current	1690 mA	
Inc Current	1300 mA	
Inc Current %	10 %	
Ind Test Freq	0.001 MHz	
Q Test Freq		
Core	High Saturation	
Sleeve	Toroid Core	

Part PTHF75R-30 SM		Check Stock
Series	PTHER-SM	
Type	Power Inductors	
Description	Surface Mount Toroidal Power Choke - RoHS	
Mounting	Surface Mount	
Shielded	Yes	
QPL	No	
COTS	No	
ROHS	Yes	
MIL No.	Not Applicable	
Length	0.44 inches	
Width	0.44 inches	
Height	0.4 inches	
Lead Length		
Weight		
Inductance	75 μ H	
Tolerance	± 10	
Q		
SRF		
DCR	0.13 Ω	
Max Current	1620 mA	
Inc Current	800 mA	
Inc Current %	10 %	
Ind Test Freq	0.001 MHz	
Q Test Freq		
Core	High Saturation	
Sleeve	Toroid Core	

Part PTHF75R-180SM		Check Stock
Series	PTHER-SM	
Type	Power Inductors	
Description	Surface Mount Toroidal Power Choke - RoHS	
Mounting	Surface Mount	
Shielded	Yes	
QPL	No	
COTS	No	
ROHS	Yes	
MIL No.	Not Applicable	
Length	0.34 inches	
Width	0.34 inches	
Height	0.3 inches	
Lead Length		
Weight		
Inductance	75 μ H	
Tolerance	$\pm$ 10	
Q		
SRF		
DCR	0.26 Ω	
Max Current	990 mA	
Inc Current	300 mA	
Inc Current %	10 %	
Ind Test Freq	0.001 MHz	
Q Test Freq		
Core	High Saturation	
Sleeve	Toroid Core	

Part PTHF200R-50 SM		Check Stock
Series	PTHER-SM	
Type	Power Inductors	
Description	Surface Mount Toroidal Power Choke - RoHS	
Mounting	Surface Mount	
Shielded	Yes	
QPL	No	
COTS	No	
ROHS	Yes	
MIL No.	Not Applicable	
Length	0.7 inches	
Width	0.67 inches	
Height	0.4 inches	
Lead Length		
Weight		
Inductance	200 μ H	
Tolerance	± 10	
Q		
SRF		
DCR	0.14 Ω	
Max Current	1970 mA	
Inc Current	1000 mA	
Inc Current %	10 %	
Ind Test Freq	0.001 MHz	
Q Test Freq		
Core	High Saturation	
Sleeve	Toroid Core	

Part PTHF250R-30 SM		Check Stock
Series	PTHER-SM	
Type	Power Inductors	
Description	Surface Mount Toroidal Power Choke - RoHS	
Mounting	Surface Mount	
Shielded	Yes	
QPL	No	
COTS	No	
ROHS	Yes	
MIL No.	Not Applicable	
Length	0.44 inches	
Width	0.44 inches	
Height	0.4 inches	
Lead Length		
Weight		
Inductance	250 μ H	
Tolerance	± 10	
Q		
SRF		
DCR	0.36 Ω	
Max Current	960 mA	
Inc Current	500 mA	
Inc Current %	10 %	
Ind Test Freq	0.001 MHz	
Q Test Freq		
Core	High Saturation	
Sleeve	Toroid Core	

Part PTHF150R-30SM		Check Stock
Series	PTHER-SM	
Type	Power Inductors	
Description	Surface Mount Toroidal Power Choke - RoHS	
Mounting	Surface Mount	
Shielded	Yes	
QPL	No	
COTS	No	
ROHS	Yes	
MIL No.	Not Applicable	
Length	0.44 inches	
Width	0.44 inches	
Height	0.4 inches	
Lead Length		
Weight		
Inductance	150 μ H	
Tolerance	± 10	
Q		
SRF		
DCR	0.19 Ω	
Max Current	1330 mA	
Inc Current	600 mA	
Inc Current %	10 %	
Ind Test Freq	0.001 MHz	
Q Test Freq		
Core	High Saturation	
Sleeve	Toroid Core	

Part PTHF250R-50 SM		Check Stock
Series	PTHER-SM	
Type	Power Inductors	
Description	Surface Mount Toroidal Power Choke - RoHS	
Mounting	Surface Mount	
Shielded	Yes	
QPL	No	
COTS	No	
ROHS	Yes	
MIL No.	Not Applicable	
Length	0.7 inches	
Width	0.67 inches	
Height	0.4 inches	
Lead Length		
Weight		
Inductance	250 μ H	
Tolerance	± 10	
Q		
SRF		
DCR	0.16 Ω	
Max Current	1840 mA	
Inc Current	900 mA	
Inc Current %	10 %	
Ind Test Freq	0.001 MHz	
Q Test Freq		
Core	High Saturation	
Sleeve	Toroid Core	

Part PTHF330R-50 SM		Check Stock
Series	PTHER-SM	
Type	Power Inductors	
Description	Surface Mount Toroidal Power Choke - RoHS	
Mounting	Surface Mount	
Shielded	Yes	
QPL	No	
COTS	No	
ROHS	Yes	
MIL No.	Not Applicable	
Length	0.7 inches	
Width	0.67 inches	
Height	0.4 inches	
Lead Length		
Weight		
Inductance	330 μ H	
Tolerance	± 10	
Q		
SRF		
DCR	0.19 Ω	
Max Current	1690 mA	
Inc Current	800 mA	
Inc Current %	10 %	
Ind Test Freq	0.001 MHz	
Q Test Freq		
Core	High Saturation	
Sleeve	Toroid Core	

Part PTHF100R-180SM		Check Stock
Series	PTHFR-SM	
Type	Power Inductors	
Description	Surface Mount Toroidal Power Choke - RoHS	
Mounting	Surface Mount	
Shielded	Yes	
QPL	No	
COTS	No	
ROHS	Yes	
MIL No.	Not Applicable	
Length	0.34 inches	
Width	0.34 inches	
Height	0.3 inches	
Lead Length		
Weight		
Inductance	100 μ H	
Tolerance	± 10	
Q		
SRF		
DCR	0.3 Ω	
Max Current	920 mA	
Inc Current	300 mA	
Inc Current %	10 %	
Ind Test Freq	0.001 MHz	
Q Test Freq		
Core	High Saturation	
Sleeve	Toroid Core	

Part PTHF100R-30SM		Check Stock
Series	PTHFR-SM	
Type	Power Inductors	
Description	Surface Mount Toroidal Power Choke - RoHS	
Mounting	Surface Mount	
Shielded	Yes	
QPL	No	
COTS	No	
ROHS	Yes	
MIL No.	Not Applicable	
Length	0.44 inches	
Width	0.44 inches	
Height	0.4 inches	
Lead Length		
Weight		
Inductance	100 μ H	
Tolerance	± 10	
Q		
SRF		
DCR	0.15 Ω	
Max Current	1500 mA	
Inc Current	600 mA	
Inc Current %	10 %	
Ind Test Freq	0.001 MHz	
Q Test Freq		
Core	High Saturation	
Sleeve	Toroid Core	

Parts

PTHF100R-180SM Surface Mount Toroidal Power Choke - RoHS
 PTHF100R-30SM Surface Mount Toroidal Power Choke - RoHS
 PTHF100R-40SM Surface Mount Toroidal Power Choke - RoHS
 PTHF100R-50SM Surface Mount Toroidal Power Choke - RoHS
 PTHF10R-180SM Surface Mount Toroidal Power Choke - RoHS
 PTHF10R-30SM Surface Mount Toroidal Power Choke - RoHS
 PTHF10R-40SM Surface Mount Toroidal Power Choke - RoHS
 PTHF10R-50SM Surface Mount Toroidal Power Choke - RoHS
 PTHF150R-30SM Surface Mount Toroidal Power Choke - RoHS
 PTHF150R-40SM Surface Mount Toroidal Power Choke - RoHS
 PTHF150R-50SM Surface Mount Toroidal Power Choke - RoHS
 PTHF200R-30SM Surface Mount Toroidal Power Choke - RoHS
 PTHF200R-40SM Surface Mount Toroidal Power Choke - RoHS

PTHF200R-50SM	Surface Mount Toroidal Power Choke - RoHS
PTHF250R-30SM	Surface Mount Toroidal Power Choke - RoHS
PTHF250R-40SM	Surface Mount Toroidal Power Choke - RoHS
PTHF250R-50SM	Surface Mount Toroidal Power Choke - RoHS
PTHF25R-180SM	Surface Mount Toroidal Power Choke - RoHS
PTHF25R-30SM	Surface Mount Toroidal Power Choke - RoHS
PTHF25R-40SM	Surface Mount Toroidal Power Choke - RoHS
PTHF25R-50SM	Surface Mount Toroidal Power Choke - RoHS
PTHF330R-50SM	Surface Mount Toroidal Power Choke - RoHS
PTHF50R-180SM	Surface Mount Toroidal Power Choke - RoHS
PTHF50R-30SM	Surface Mount Toroidal Power Choke - RoHS
PTHF50R-40SM	Surface Mount Toroidal Power Choke - RoHS
PTHF50R-50SM	Surface Mount Toroidal Power Choke - RoHS
PTHF75R-180SM	Surface Mount Toroidal Power Choke - RoHS
PTHF75R-30SM	Surface Mount Toroidal Power Choke - RoHS
PTHF75R-40SM	Surface Mount Toroidal Power Choke - RoHS
PTHF75R-50SM	Surface Mount Toroidal Power Choke - RoHS