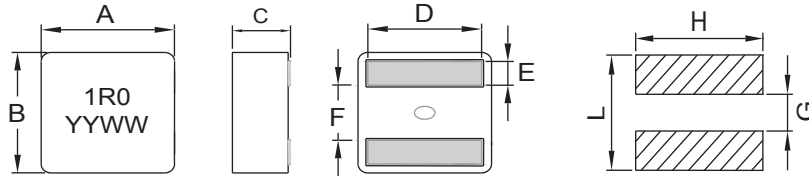




Shielded High Current Power Choke

PCXA605

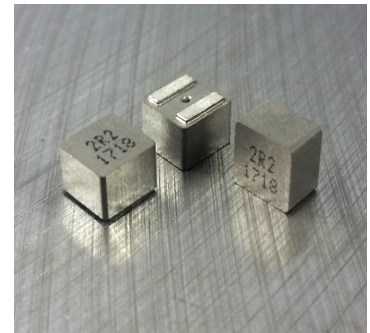


Dimensions: $\frac{\text{Inches}}{\text{(mm)}}$

A	B	C	D	E	F
.260±.008 (6.6±0.2)	.252±.008 (6.4±0.2)	.189±.008 (4.8±0.2)	See Table Below	.055±.008 (1.4±0.2)	.102±.010 (2.6±0.25)

Recommend PCB Layout

L	G	H
.220 (5.6) Ref	.010 (2.5) Ref	.220 (5.6) Ref



Allied Part Number	Inductance (μH) ±20% @ 0A	DCR (mΩ) Typ. @25°C	DCR (mΩ) Max@25°C	I _{rms} (A) Typ		I _{sat} (A)		Dim D Inch/mm (±.012/.3)
				20°C Rise	40°C Rise	Typ	Max	
PCXA605-1R0M	1.0	4.1	4.52	15	20	23.0	18.0	.209/5.3
PCXA605-1R2M	1.2	5.3	5.83	14	18	22.0	16.0	.209/5.3
PCXA605-1R5M	1.5	5.7	6.3	13	17	19.5	14.5	.209/5.3
PCXA605-1R8M	1.8	6.4	7.1	12	16	18.5	13.5	.209/5.3
PCXA605-2R2M	2.2	7.7	8.5	10	13	16.0	12.0	.205/5.2
PCXA605-3R3M	3.3	11.2	12.5	8.5	11	12.5	10.0	.205/5.2
PCXA605-4R3M	4.3	15.1	16.2	7.0	9.0	11.0	8.5	.205/5.2
PCXA605-4R7M	4.7	16.7	18.4	6.5	8.5	10.5	8.0	.205/5.2

All specifications subject to change without notice.

Features

- High Operating Temperature Range
- High Efficiency
- High Current with Soft Saturation
- Low DCR
- Suitable for pick and place
- Very low acoustic noise and very low leakage flux noise.

Electrical

Inductance Range: 1.0μH to 4.7μH
Tolerance: ±20% Across entire series
Test Frequency: 100KHz, 0.1V
Operating Temp: -40°C to +125°C
MSL: Level 1
I_{rms}: Current at which ΔT=20°C and ΔT=40°C temp rise without core loss.
I_{sat}: Current at which Inductance drop is approximately 30%. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions.

Resistance to Soldering Heat

Pre-Heat: 150°C, 1 minute.
Solder Composition: Sn96.5% / Ag3% / Cu0.5%
Solder Temp: 245°C ± 5°C
Immersion Time: 4 sec. ± 1 sec.
Depth: Completely cover the termination

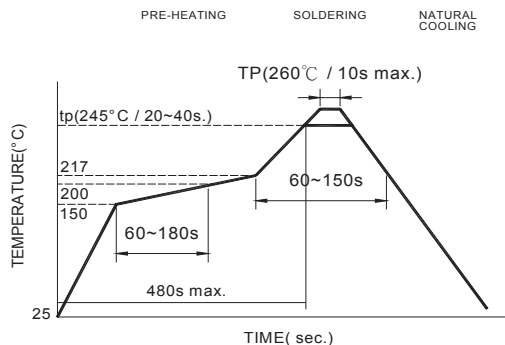
Test Equipment

(L): HP4284A LCR meter or equivalent
DCR: CH16502, Agilent 33420A Micro-Ohmmeter

Physical

Packaging: 1000 pieces per 13 inch reel.
Marking: EIA Inductance Code/ Date Code

Reflow Soldering



Reflow times: 3 times max.



Typical Performance Curves

