

SMD COUPLED INDUCTOR

MODEL NO. : SCI-14705-R70 GP

FEATURES:

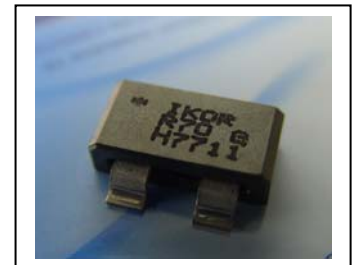
- * Superior quality for an automated production line.
- * Designed for use with IKOR's proprietary coupled inductor multi-phase DC-DC converter topology.
- * Lowest output ripple with the fewest capacitors.
- * Low height and small size allows use in both imbedded (VRD) and module (VRM) applications.
- * Robust SMD package is compatible with SMT assembly process handling.
- * Tape and reel packing.
- * Green products version also available.

Pb – FREE

APPLICATION :

- * VRDs and POL modules containing VRM 10.x / VRM11 based designs.

APPEARANCE:



COMMENTS:

*The technology utilized in conjunction with the coupled inductor ("the CL") described in this data sheet includes intellectual property (the "IP") owned by iWatt, Inc. and is covered by one or more of the following U.S. patents: 6,545,450; 6,686,727; 6,696,823. In connection with the end customer's purchase of the CL from "Taipei Multipower Electronics CO., LTD", the end customer is hereby granted a non-exclusive, worldwide, royalty-free license (without rights to sublicense) to use and incorporate the IP in the end customer's product that also incorporates the CL. In no way does this license extend to customer end products which do not incorporate the CL to implement the IP.

REMARKS:

- * THE INDUCTANCE MEASUREMENTS WOULD BE TESTED IN PRODUCTION BY SAMPLING.

SMD COUPLED INDUCTOR

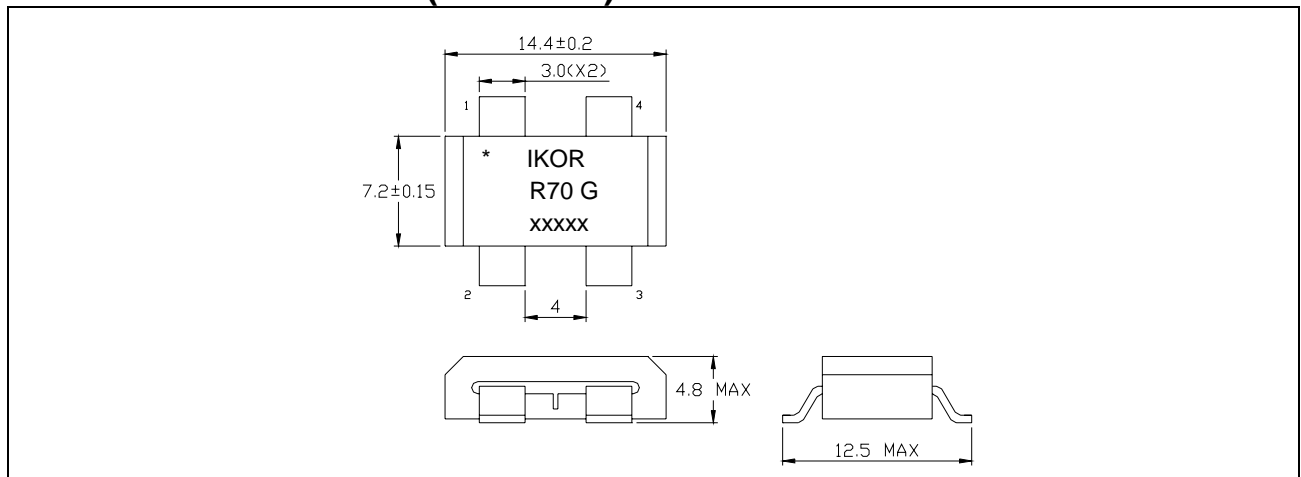
ELECTRICAL SPECIFICATION:

PART NO	INDUCTANCE (nH)						DCR MAX (mΩ)		LEAKAGE INDUCTANCE (nH) TYP
	1-2			4-3			1-2	4-3	P1-2, SHORT(4-3)
	MIN	TYP	MAX	MIN	TYP	MAX			
SCI-14705-R70 GP	525	700	875	525	700	875	0.22	0.22	70

NOTE(1) : TEST CONDITION : 500KHZ,0.1VRMS.

NOTE(2) : LEAKGE INDUCTANCE : 1MHz,1.0VRMS (SHORTED 4-3)

PHYSICAL DIMENSION : (UNIT:mm)



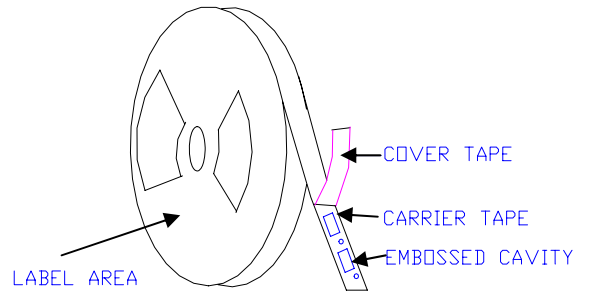
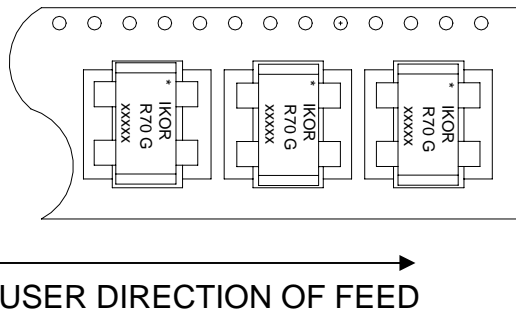
PACKAGING SPEC:

1. REEL SIZE & UNITS PER REEL :13",800PCS.
2. TAPE WIDTH:24mm.
3. REEL WIDTH:29.5mm
4. COMPONENT PITCH:16mm

台北沛波電子股份有限公司
TAIPEI MULTIPower ELECTRONICS CO., LTD.
 2ND. FL., 542-7 CHUNG-CHENG ROAD,
 HSIN-TIEN CITY, TAIPEI, TAIWAN, R.O.C
 TEL : (02) 8667-2078 FAX : (02)8667-2006

PACKING

Tape and Reel Orientation



NOTE : Top view shown with cover tape removed.

TAPE WIDTH	REEL WIDTH	COMPONENT PITCH	UNITS PER REEL
24mm	29.5mm	16mm	800

TAPE SPECIFICATIONS:

- Carrier Tape Type : Conductive.
- Cover Tape Type : Antistatic.
- Cover Tape Adhesion to Carrier : 20 - 100 grams.

REEL SPECIFICATIONS:

- Antistatic.
- Diameter (flange) : 13" (330.2mm)

STANDARDS : All embossed carrier tape packaging will be accomplished in compliance with latest revision of EIA-481 "Taping of surface Mount Components for Automatic Placement".



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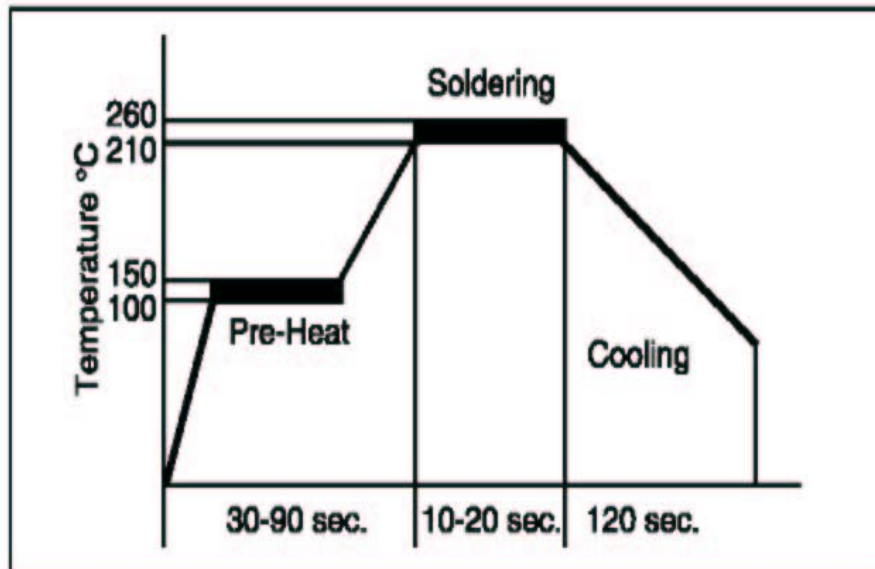
SPECIFICATION SHEET

CUSTOMER: iWatt PART NUMBER: _____ REV: 0
DESCRIPTION: SMD COUPLED INDUCTOR TMP NUMBER: SCI-14705-R70 GP DATE: 07-25-2007

REFLOW PROFILE :

Soldering Parameters:

Wave Solder — 260°C, 10 seconds max
Reflow Solder — 260°C, 30 seconds max



SHEET OF SHEETS

APPROVED BY:

Jackie

07-25-2007

CHECKED BY:

Ryan

07-25-2007

PREPARED BY:

Joe

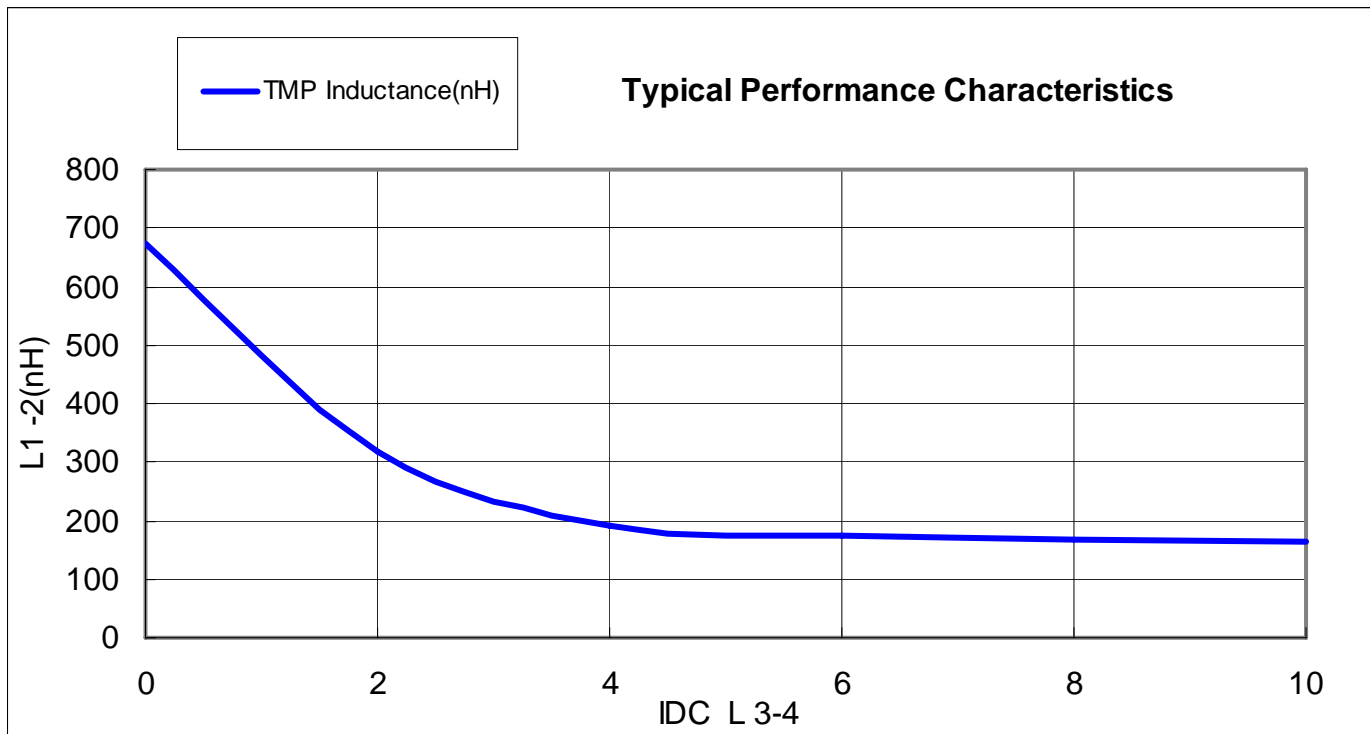
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Component Temp. Resistance Notice

品名(Products Name) :SMD COUPLED INDUCTOR

沛波料號(TMP P/N) :SCI-14705-R70 GP

SMT 最大耐溫°C/時間	重工規格	接腳/端子外鍍層
	手焊最大耐溫°C/時間	
SMT Max Temp. Time	Solder iron MAX. temp.-time by rework process	Plating alloy for lead finish
260°C / 10sec / 3Times	380°C / 10sec	鍍霧面純錫

溫度曲線圖

(Componet Temp. Profile)

Soldering Parameters:

Wave Solder — 260°C, 10 seconds max

Reflow Solder — 260°C, 30 seconds max

