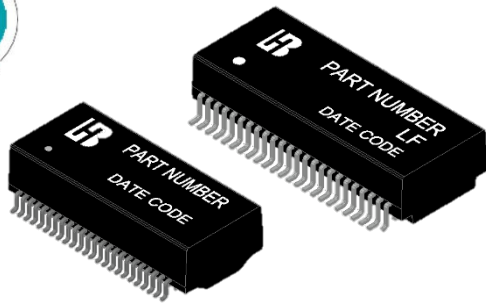






# 5GBase-T Dual Port Magnetic Modules

QGS2014xx, QGS2015xx



-  IEEE802.3bz/af/at/bt Compliant Options
-  Compatible with all Major PHYs
-  RoHS compliant and Halogen Free
-  Ideal for Commercial or Industrial switches and high-volume consumer applications

## Electrical Specification @ 25°C

PART NUMBER	Media side Inductance (@100KHz/0.1Ve) uH min	Insertion Loss dB max		Return Loss dB min		PoE (Current Per Pair mA)	Operating Temperature (°C)	Isolation (Pri:Sec)	Note
		1-100 MHz	100-250 MHz	1- 40 MHz	40< f ≤ 250 MHz				
		QGS2014R	180	-1.0	-2.0				
QGS2015RS	180	-1.0	-2.0	-16	- (16-10 log <sub>10</sub> (f /40))	-	0 to 70	4000Vrms	Surge DM 4.3KV
QGS6014R	180	-1.0	-2.0	-16	- (16-10 log <sub>10</sub> (f /40))	600	0 to 70	1500Vrms	-
QGS6014RM	180	-1.0	-2.0	-16	- (16-10 log <sub>10</sub> (f /40))	600	-40 to 85	1500Vrms	-
QGS6015RS	180	-1.0	-2.0	-16	- (16-10 log <sub>10</sub> (f /40))	600	0 to 70	4000Vrms	Surge DM 4.3KV
QGS9015RAM	180	-1.0	-2.0	-16	- (16-10 log <sub>10</sub> (f /40))	1000	-40 to 105	1500Vrms	-

Note: Refer to the specification for detail

## Process and Materials

1. Storage Temperature: Refer to the specification for details
2. Compliance to J-STD:
  - A. J-STD-002: Solderability at 245 °C Reflow Profile
  - B. J-STD-020: Moisture Sensitive Level 1
  - C. J-STD-075: R7, 245 °C Maximum Through Reflow Solder
3. All parts come in 13" (330mm) Diameter Tape and reel | - see page 3 for details
4. Header: DAP (Diallyl Phthalate) with flammability Rating UL 94V-0 or better
5. Lead Frame: Cooper Alloy
  - Underplated: Half Hard Ductile Nickel 40-118" (1.0 -3.0um)
  - Over plated: 100% Tin electro-deposited per 240~400u"Min(6~10um)
  - Finish: Matte finish 100% Tin solde

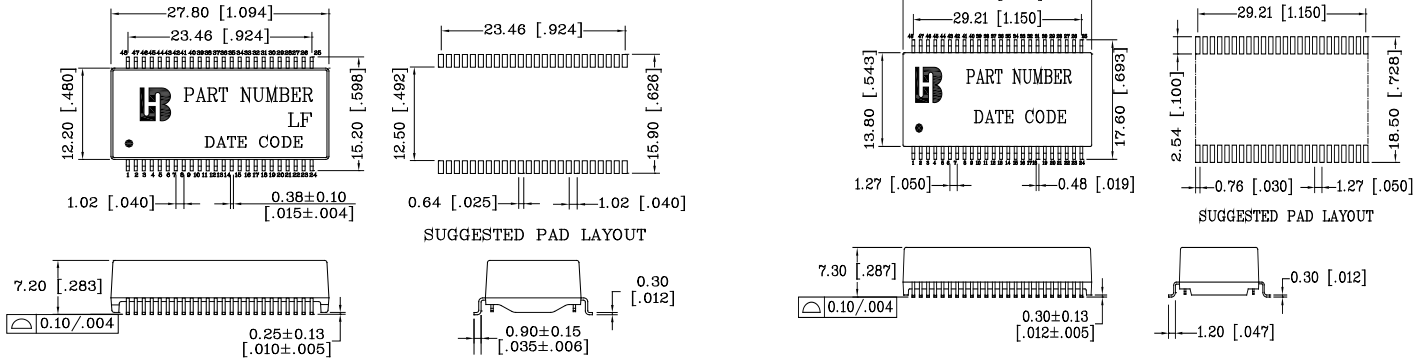
# 5GBase-T Dual Port Magnetic Modules

QGS2014xx, QGS2015xx

## Mechanical

### QGS2014xx

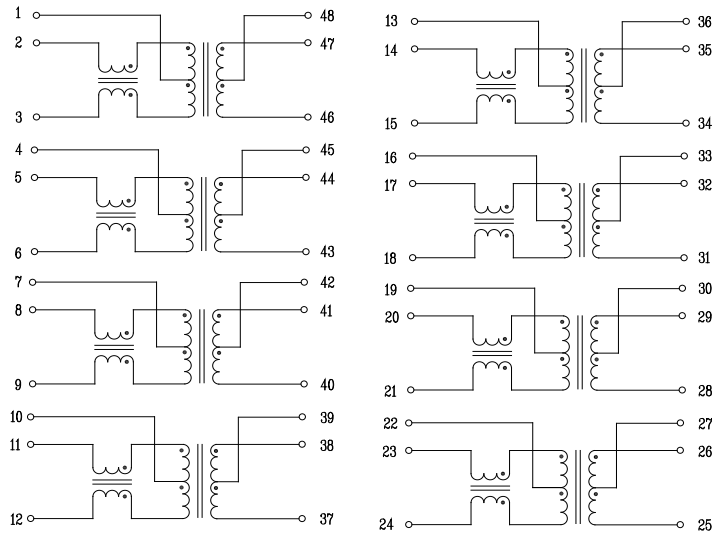
### QGS2015xx



Dimensions: mm / [Inches]  
 Unless otherwise specified, all tolerances are:  $xx.xx \pm 0.25$  [.010]  
 $0.xx \pm 0.05$  [.002]

## Schematic

### QGS2014R, QGS6014R, QGS6014RM, QGS2015RS, QGS6015RS, QGS6015RS

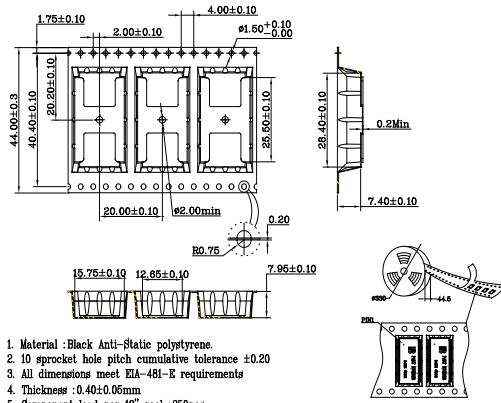


# 5GBase-T Dual Port Magnetic Modules

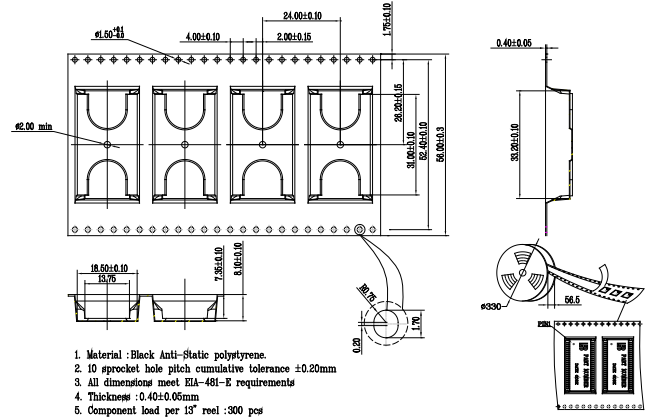
QGS2014xx, QGS2015xx

## Tape & Reel

### QGS2014R, QGS6014R, QGS6014RM

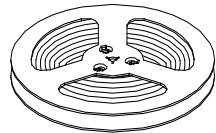


### QGS2015RS, QGS6015RS, QGS6015RS

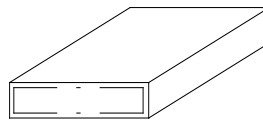


## Carton Package

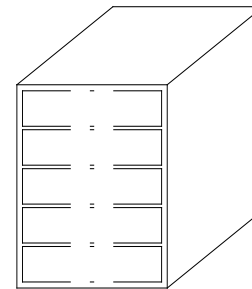
### QGS2014R, QGS6014R, QGS6014RM



REEL



INNER BOX: 347x347x82



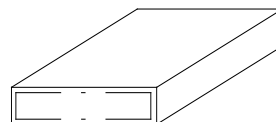
OUTER CARTON: 375x375x470

1. 1 REEL=350PCS
2. 1 INNER BOX=1 REEL=350PCS
3. 1 OUTER CARTON=5 INNER BOXES=1750PCS

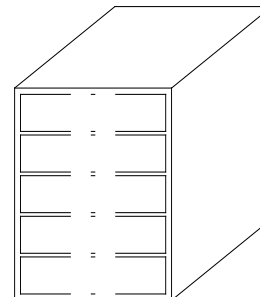
### QGS2015RS, QGS6015RS, QGS6015RS



REEL



INNER BOX: 347x347x82



OUTER CARTON: 375x375x470

1. 1 REEL=350PCS
2. 1 INNER BOX=1 REEL=350PCS
3. 1 OUTER CARTON=5 INNER BOXES=1750PCS

## For More Information:

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