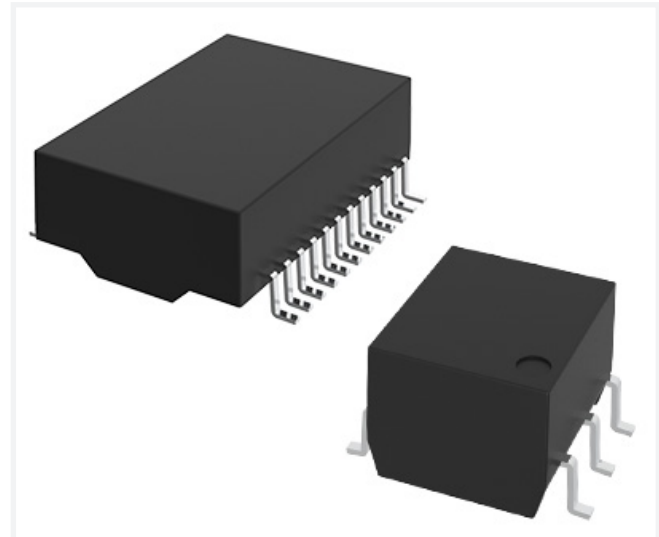


Discrete Magnetic Series

SUPPORTS 10/100T, 1GT, 2.5G, 5G, AND 10G TRANSMISSION SPEEDS WITH 2 & 4 PAIR POE UP TO 140W

The Discrete Magnetic Series can offer a variety of products that can support 10/100T, 1GT, 2.5G, 5G & 10G transmission speed. It supports 2 & 4 pair PoE up to 140W. Configurations of both through-hole and SMT type are available for soldering process application.

- Design to meet standard IEEE 802.3ab
- 10/100T, 1GBT (10/100/1000-BT), 2.5G, 5G & 10G transmission rate
- Commercial 0°C ~70°C and industrial -40°C~85°C and -40°C~125°C temp
- 2 pair and 4 pair PoE+ /POE++ can up to 140W max.
- Through-hole, Surface-mount options
- Single, dual and quad package



TARGET MARKETS



FEATURES

- Transmission speed up to 25G, compliant to IEEE 802.3 standard
- 2 pair & 4 pair POE / POE+ / POE++ can support POE up to 140W max.
- Package and design will apply to automation process
- Discrete magnetic

BENEFITS

- High isolation up to 6KV
- Higher reliability that can meet AEC-Q200
- Single, dual, quad Package for SMT, PiP, and THR options
- Extended temperature can meet -40°C~+105°C max.

TECHNICAL INFORMATION

MATERIAL

- Housing: High temperature thermoplastic, complies with UL 94V-0, Black color
- Terminal: 100µin tin min. plating over Phosphor Bronze

MECHANICAL PERFORMANCE

- Durability: Per EIA 364-09, 750 mating cycles
- Vibration: Per EIA 364-28 random condition II (10g, 10-500Hz, 6 Hours), no discontinuity > 1us
- Shock: Per EIA 364-27 test condition A (11 ms, 50g, 1/2 Sine), no discontinuity > 1us
- Insertion & Withdrawal Force: Per EIA-364-13, 20N (4.5lbf) max. (Latch disengaged)

ELECTRICAL PERFORMANCE

- Design to meet standard IEEE 802.3ab
- 10/100T, 1GBT (10/100/1000-BT), 2.5G, 5G, 10G, Power Over Ethernet (PoE/PoE plus), surge and ESD protection
- Standard 0°C ~70°C and extended -40°C~85°C & -40°C~105°C temp

PACKAGING

- Tape & Reel

SPECIFICATIONS

- Design to meet IEEE 802.3ab standard

ENVIRONMENTAL

- Temperature Life w/ Load: Per EIA-364-17, 1.5 A, 70°C, 500 hours
- Temperature Life w/o Load: Per EIA-364-17, 105°C, 1000 hours
- Thermal Shock: Per EIA-364-32, -55°C~+105°C, 25 cycles
- Humidity: Per EIA 364-31, 21 Cycles, 504 Hrs, 25°C~65°C, 90-95%RH, with -10°C cold shock
- Humidity: Per EIA-364-31, steady state, 21 Days, 50°C, 90-95%RH
- Salt Spray: Per EIA 364-26, 250 hours, 5% salt, 35°C
- Solvent Resistance: Isopropyl alcohol & 5% sodium hydroxide solution, 24 Hrs each
- Solderability: Per EIA-364-52, 95% coverage after category 2 steam aging

TARGET MARKETS/APPLICATIONS



Telecommunications



Consumer Goods



Industrial & Instrumentation



Medical

PART NUMBERS

Part Description	Part Numbers
Discrete magnetic 24pin, 1G, with SMT type, Non POE	GMG224S1101T
Discrete magnetic 48pin, 1G, with SMT type, Non POE	GMG248S1B13T
Discrete magnetic 48pin, 1G, with SMT type, POE	GMG248S1B21T
Discrete magnetic 24pin, 2.5G, with SMT type, Non POE	GMG424S1123T
Discrete magnetic 16pin, 10/100, with SMT type, Non POE	GMG116S1H27T
Discrete magnetic 24pin, 10G, with SMT type, Non POE	GMG324S1128T
Discrete magnetic 24pin, 10G, with SMT type, POE	GMG324S1434T
Discrete magnetic 16pin, 100base-T1, with SMT type	GMG116S1603R
Discrete magnetic 24pin, 1000base-T1, with SMT type	GMG224S1508R
Discrete magnetic 6pin, 10/100, with SMT type, 4KV	GMG116S1D14H

Find part number details using the search box on www.amphenol-cs.com