CD75T125NP-180KC Datasheet

DiGi Electronics Part Number	CD75T125NP-180KC-DG
Manufacturer	Sumida America Components Inc.
Manufacturer Product Number	CD75T125NP-180KC
Description	FIXED IND 18UH 2.8A 100 MOHM SMD
Detailed Description	18 µH Unshielded Inductor 2.8 A 100mOhm Max Nonstandard

https://www.DiGi-Electronics.com

Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
CD75T125NP-180KC	Sumida America Components Inc.
Series:	Product Status:
CD75/T125	Active
Type:	Material - Core:
-	Ferrite
Inductance:	Tolerance:
18 µH	±10%
Current Rating (Amps):	Current - Saturation (Isat):
2.8 A	2A
Shielding:	DC Resistance (DCR):
Unshielded	100mOhm Max
Q @ Freq:	Frequency - Self Resonant:
-	-
Ratings:	Operating Temperature:
AEC-Q200	-40°C ~ 125°C
Inductance Frequency - Test:	Features:
2.52 MHz	-
Mounting Type:	Package / Case:
Surface Mount	Nonstandard
Supplier Device Package:	Size / Dimension:
-	0.307" L x 0.276" W (7.80mm x 7.00mm)
Height - Seated (Max):	
0.217" (5.50mm)	

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
RoHS Compliant	1 (Unlimited)
ECCN:	HTSUS:
EAR99	8504.50.8000

SMD Power Inductor

CD75/T125

Recommended Type

Description

- Ferrite drum core construction
- Magnetically unshielded.
- L×W×H: 8.1×7.3×5.5mm Max.
- Product weight: 0.76g(Ref.)
- Moisture Sensitivity Level: 1
- Qualification to AEC-Q200

Environmental Data

- Operating Temperature: -40°C to +125°C (including self-heating)
- Storage temperature range: -40℃～+125℃

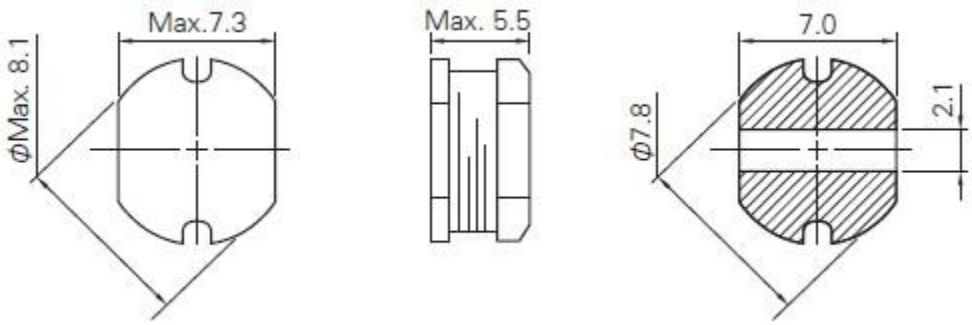
Packaging

- Carrier tape and reel packaging

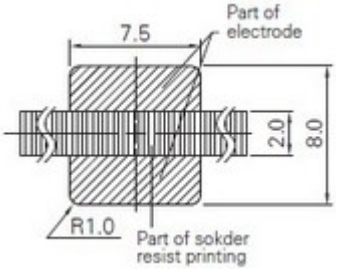
Applications

- High temp and high reliability automotive applications

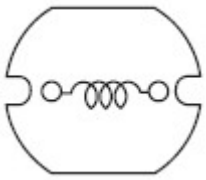
Dimension - [mm]



Recommended Land pattern - [mm]



Wire Connection



Note : This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

SMD Power Inductor

CD75/T125

Recommended Type

Electrical Characteristics

Part Number	Inductance [Within] (μH) ※1	D.C.R. at 20℃ Max.(Typ.) (mΩ)	Saturation Current (A) Max.(Typ.) ※2	Temperature Rise Current (A) Max.(Typ.) ※3
CD75T125NP-100KC	10.00 ± 10%	70.00 (42.00)	2.24 (2.80)	2.80 (3.18)
CD75T125NP-120KC	12.00 ± 10%	80.00 (48.00)	1.96 (2.45)	2.78 (3.15)
CD75T125NP-150KC	15.00 ± 10%	90.00 (56.00)	1.73 (2.16)	2.67 (3.02)
CD75T125NP-180KC	18.00 ± 10%	100 (63.00)	1.60 (2.00)	2.45 (2.80)
CD75T125NP-220KC	22.00 ± 10%	110 (70.00)	1.44 (1.80)	2.32 (2.63)
CD75T125NP-270KC	27.00 ± 10%	120 (82.00)	1.33 (1.66)	2.16 (2.46)
CD75T125NP-330KC	33.00 ± 10%	130 (97.00)	1.21 (1.51)	2.07 (2.35)
CD75T125NP-390KC	39.00 ± 10%	160 (117)	1.11 (1.39)	1.80 (2.05)
CD75T125NP-470KC	47.00 ± 10%	180 (127)	1.01 (1.26)	1.71 (1.95)
CD75T125NP-560KC	56.00 ± 10%	240 (173)	0.98 (1.22)	1.52 (1.72)
CD75T125NP-680KC	68.00 ± 10%	280 (207)	0.85 (1.06)	1.29 (1.48)
CD75T125NP-820KC	82.00 ± 10%	370 (268)	0.76 (0.95)	1.18 (1.34)
CD75T125NP-101KC	100 ± 10%	430 (360)	0.72 (0.90)	1.14 (1.29)
CD75T125NP-121KC	120 ± 10%	470 (337)	0.70 (0.87)	1.02 (1.17)
CD75T125NP-151KC	150 ± 10%	640 (480)	0.58 (0.73)	0.87 (0.96)
CD75T125NP-181KC	180 ± 10%	710 (550)	0.50 (0.63)	0.81 (0.93)
CD75T125NP-221KC	220 ± 10%	960 (710)	0.49 (0.61)	0.70 (0.80)
CD75T125NP-271KC	270 ± 10%	1110 (810)	0.43 (0.54)	0.64 (0.74)
CD75T125NP-331KC	330 ± 10%	1260 (930)	0.41 (0.51)	0.63 (0.72)
CD75T125NP-391KC	390 ± 10%	1770 (1220)	0.38 (0.47)	0.54 (0.64)
CD75T125NP-471KC	470 ± 10%	1960 (1370)	0.34 (0.43)	0.52 (0.60)

※1 Measuring frequency 10μH ~ 82μH at 2.52 MHz; 100μH ~ 820μH at 1 kHz

※2 Saturation current: This indicates the actual value of D.C. current when the inductance becomes 10% lower than its initial value.(Ta＝20℃)

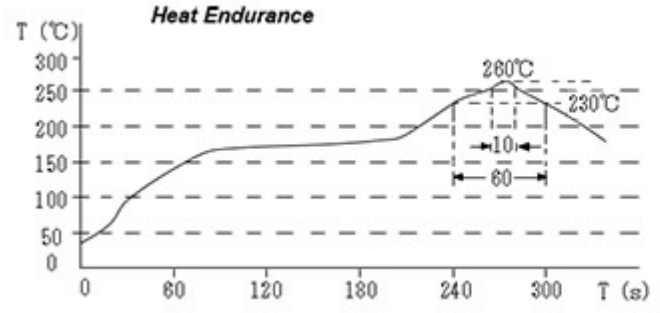
※3 Temperature rise current: The actual value of D.C. current when the temperature of coil becomes △T=40℃ (Ta＝20℃).

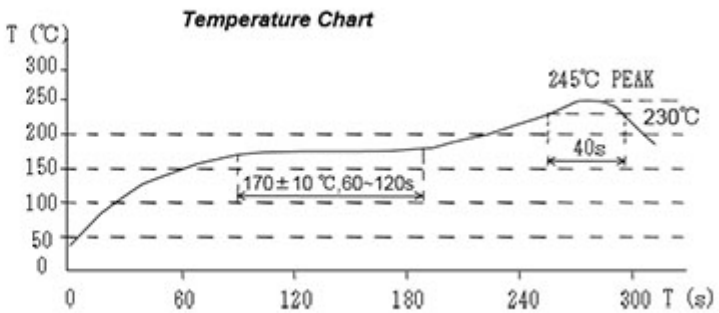
SMD Power Inductor

CD75/T125

Recommended Type

Solder Reflow Condition





Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

SMD Power Inductor

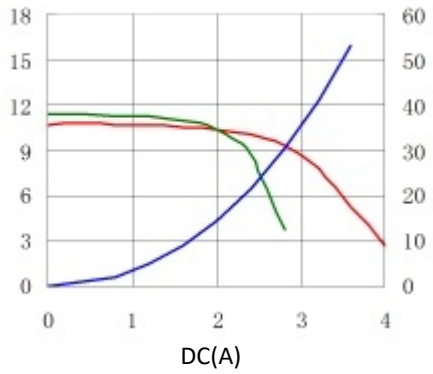
CD75/T125

Recommended Type

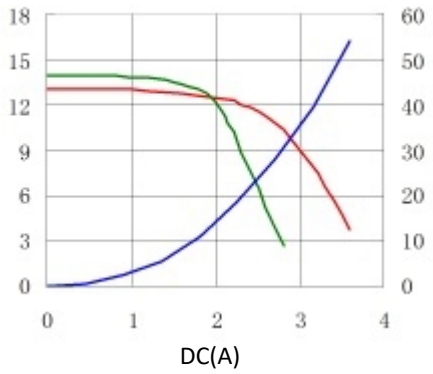
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

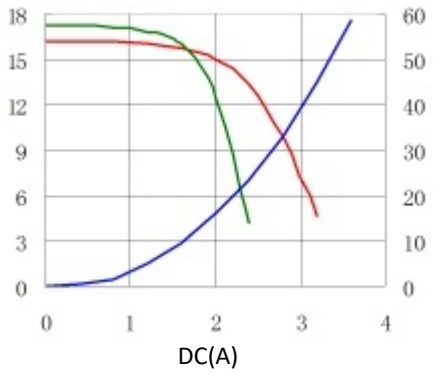
1. CD75T125NP-100KC



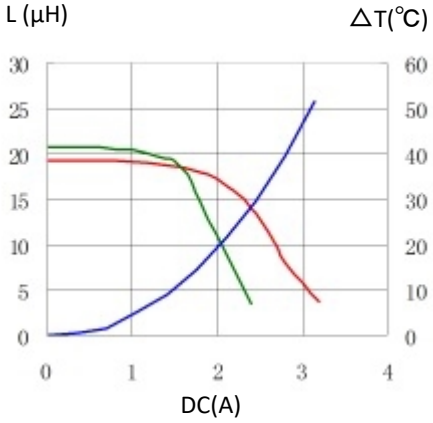
2. CD75T125NP-120KC



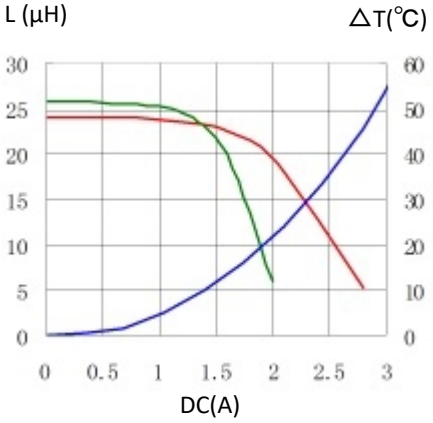
3. CD75T125NP-150KC



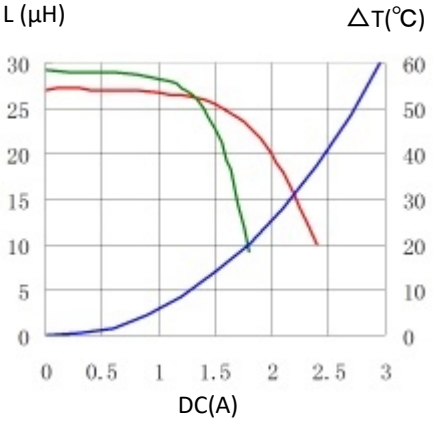
4. CD75T125NP-180KC



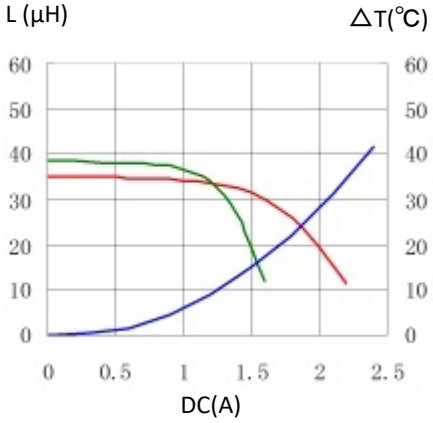
5. CD75T125NP-220KC



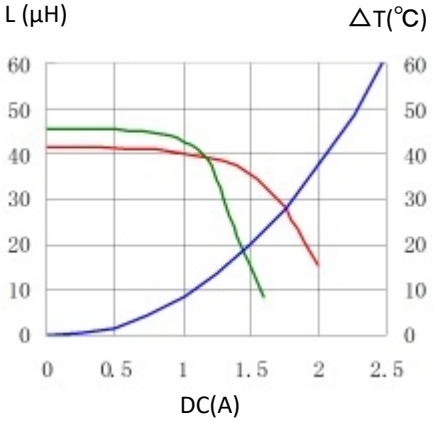
6. CD75T125NP-270KC



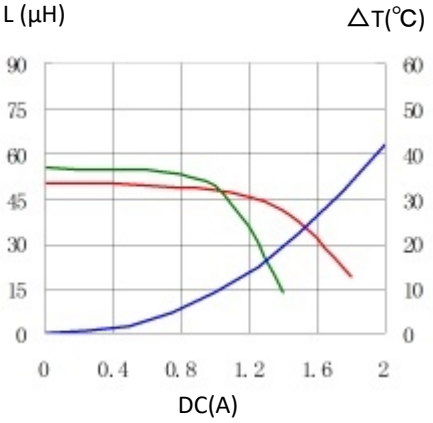
7. CD75T125NP-330KC



8. CD75T125NP-390KC



9. CD75T125NP-470KC

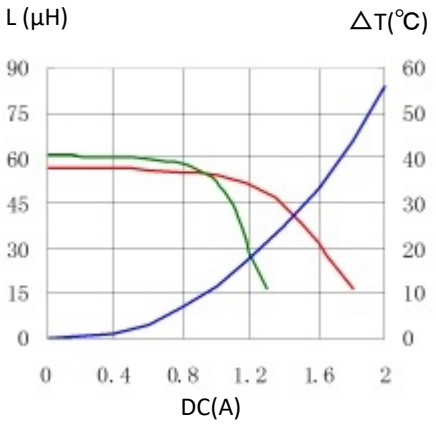


SMD Power Inductor

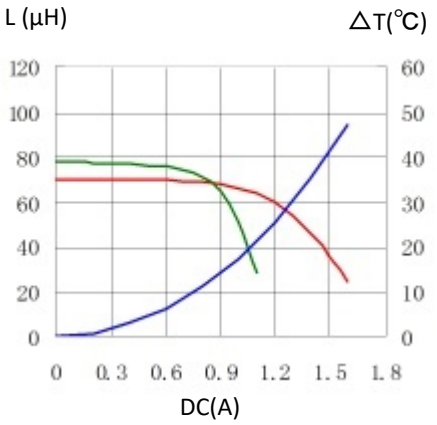
CD75/T125

Recommended Type

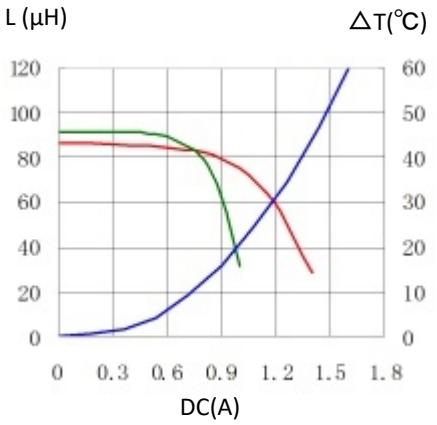
10. CD75T125NP-560KC



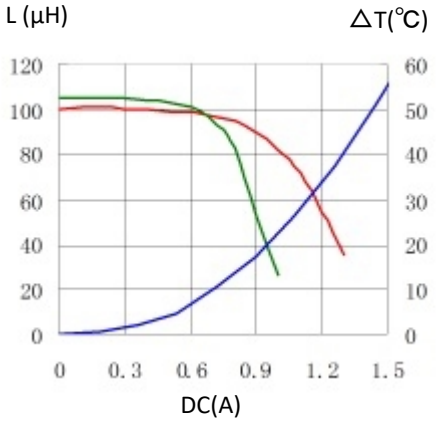
11. CD75T125NP-680KC



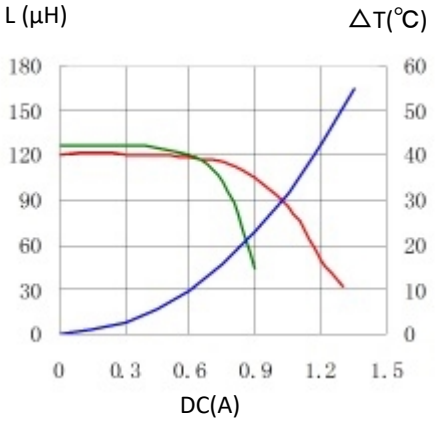
12. CD75T125NP-820KC



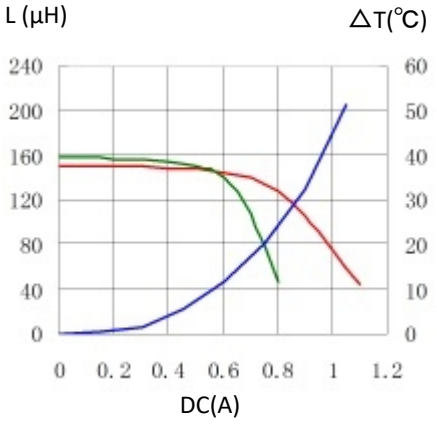
13. CD75T125NP-101KC



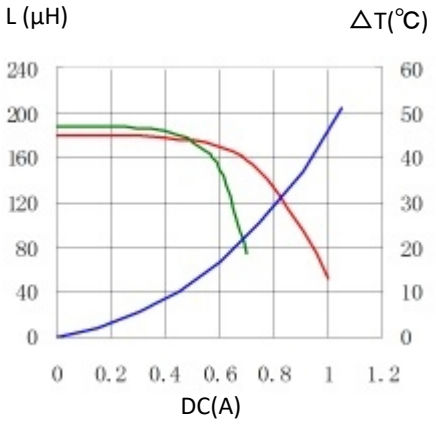
14. CD75T125NP-121KC



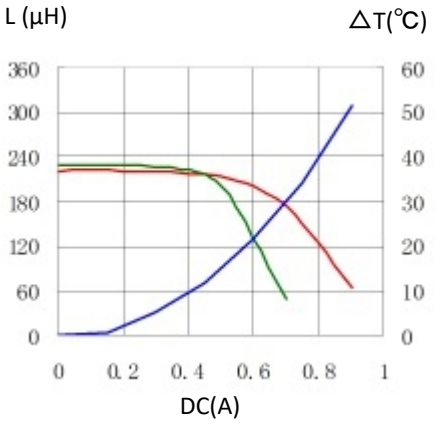
15. CD75T125NP-151KC



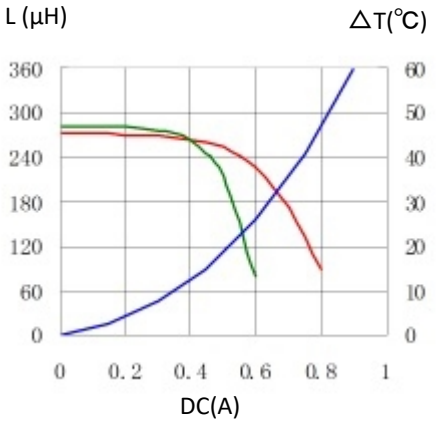
16. CD75T125NP-181KC



17. CD75T125NP-221KC



18. CD75T125NP-271KC



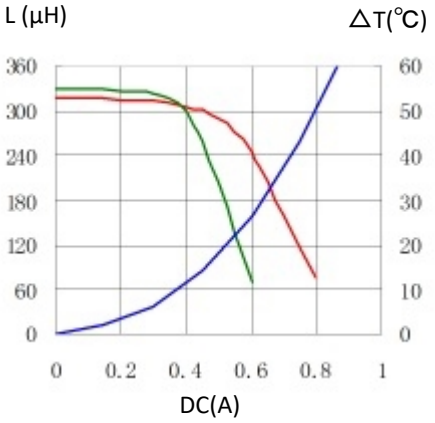
Note : This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

SMD Power Inductor

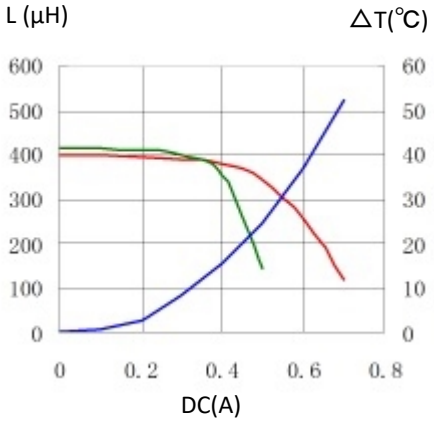
CD75/T125

Recommended Type

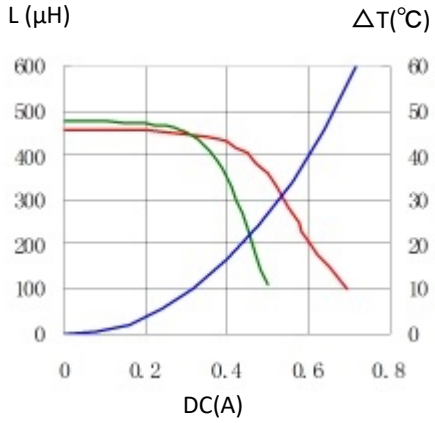
19. CD75T125NP-331KC



20. CD75T125NP-391KC



21. CD75T125NP-471KC

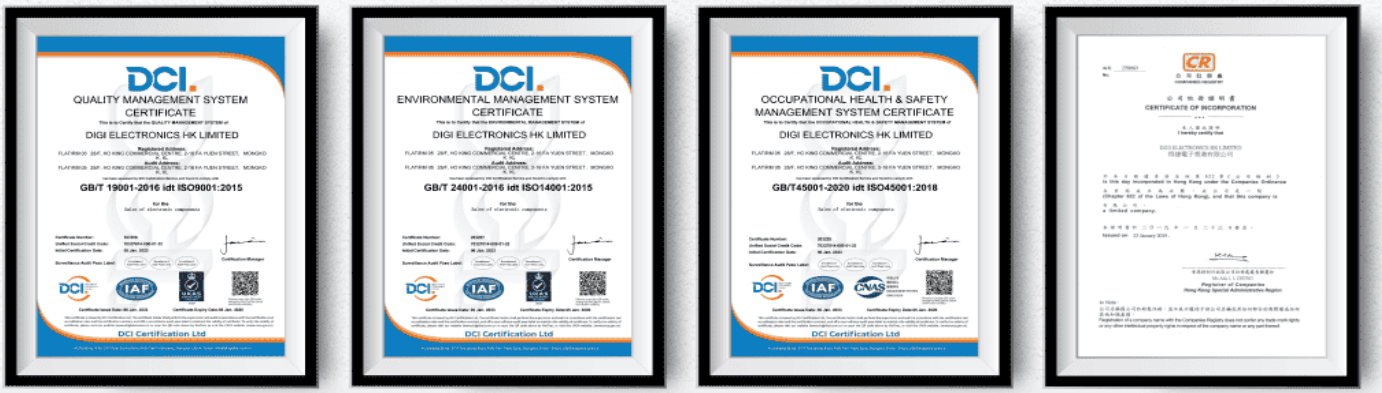


For sales office information, please click here to visit our website.

Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

OUR CERTIFICATE

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we striciy control the quality of products and services. Welcome your RFQ to Email: Info@DiGi-Electronics.com



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.