

CERAMIC MICROWAVE FILTERS

BAND PASS FILTERS – DP TYPE

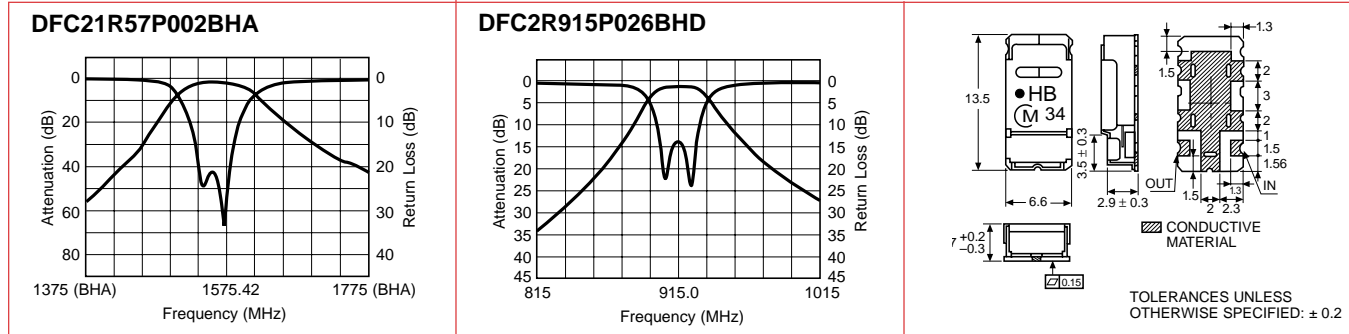
2-POLE – GPS/ ISM915 PART NUMBERING SYSTEM



| DESCRIPTION | POLES | FREQUENCY IN GHZ | TYPE | BAND WIDTH | PACKAGE TYPE | SPECIFICATION DEPENDENT |
|-----------------------|-------------------------------------|--|---|---------------------------|--|-------------------------|
| DFC: Band Pass Filter | 2: 2 Pole 3: 3 Pole 4: 4 Pole | R836: .836 GHz (836MHz) IR96: 1.96GHz (1960MHz) | P: Band Pass Filter E: Band Elimination Filter | 025: 25MHz 186: 186MHz | HH: Monoblock LH: Monoblock BH: Discrete Resonator | A-Z |

TRANSMISSION vs. REFLECTION CHARACTERISTICS

DIMENSIONS: mm

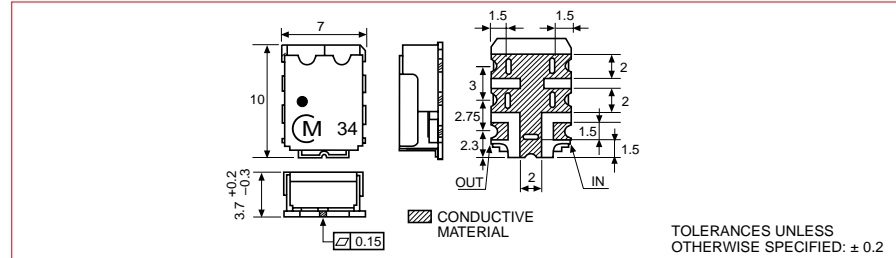


SPECIFICATIONS

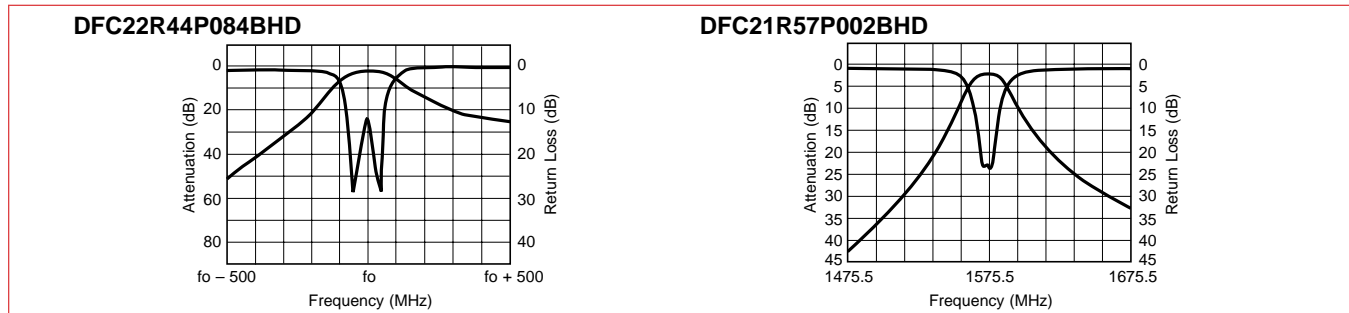
| Application | Part Number | Center Frequency f_0 (MHz) | Bandwidth (MHz) | Insertion Loss in BW (dB) | Ripple in BW (dB) | V.S.W.R. in BW | Attenuation (dB) (MHz) | Marking |
|-------------|-----------------|------------------------------|-----------------|----------------------------------|-------------------|----------------|--|---------|
| GPS | DFC21R57P002BHA | 1575.42 | $f_0 \pm 1.0$ | 0.8 (+25°C) 0.9 (-30 ~ +85°C) | 0.3 | 2.0 | 16 ($f_0 - 140$) 14 ($f_0 + 140$) | HB |
| ISM915 | DFC2R915P026BHD | 915.0 | $f_0 \pm 13.0$ | 2.3 | 1.0 | 2.0 | 23 ($f_0 - 77.5$) 18 ($f_0 + 77.5$) | GB |

2-POLE – ISM 2.4GHZ/GPS

DIMENSIONS: mm



TRANSMISSION vs. REFLECTION CHARACTERISTICS



SPECIFICATIONS

| Application | Part Number | Center Frequency f_0 (MHz) | Bandwidth (MHz) | Insertion Loss in BW (dB) | Ripple in BW (dB) | V.S.W.R. in BW | Attenuation (dB) (MHz) | Marking |
|-------------|-----------------|------------------------------|-----------------|----------------------------------|-------------------|----------------|--|---------|
| ISM 2.4GHz | DFC22R44P084BHD | 2442.0 | $f_0 \pm 42.0$ | 1.0 (+25°C) 1.2 (-35 ~ +85°C) | 0.5 | 2.0 | 15 ($f_0 \pm 250$) | GC |
| GPS | DFC21R57P002BHD | 1575.5 | $f_0 \pm 1.0$ | 3.0 | 0.5 | 2.0 | 12 ($f_0 - 30$) 11 ($f_0 + 30$) 22 ($f_0 - 50$) 18 ($f_0 + 50$) | GD |

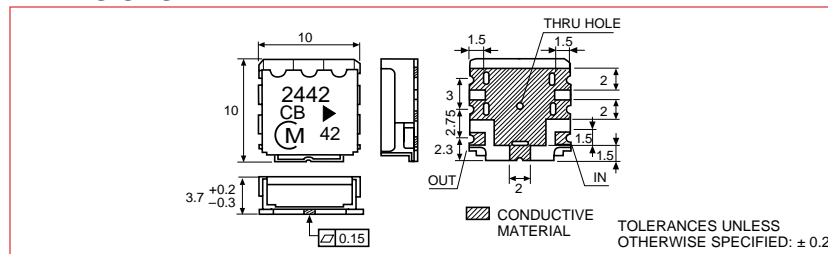
CERAMIC MICROWAVE FILTERS BAND PASS FILTERS – DP TYPE

DFC Series

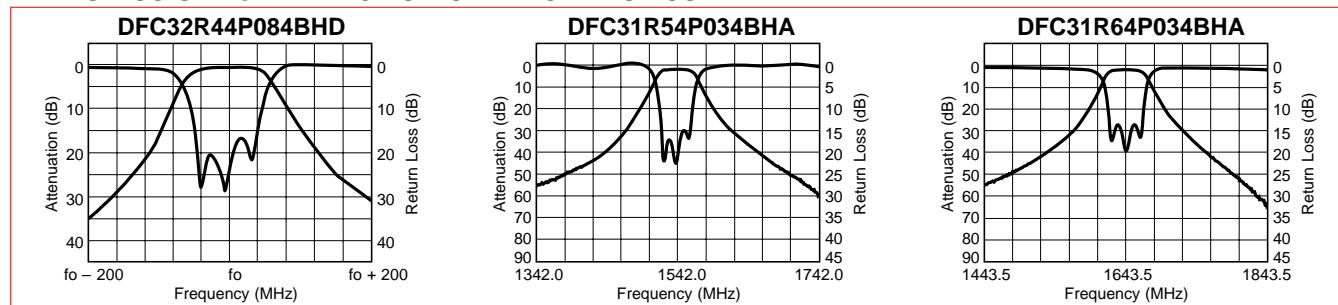
3-POLE – ISM 2.4GHz/M-SAT



DIMENSIONS: mm



TRANSMISSION vs. REFLECTION CHARACTERISTICS



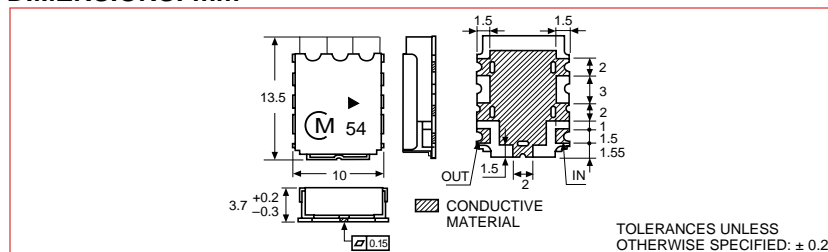
SPECIFICATIONS

| Application | Part Number | Center Frequency f_o (MHz) | Bandwidth (MHz) | Insertion Loss in BW (dB) | Ripple in BW (dB) | V.S.W.R. in BW | Attenuation (dB) (MHz) | Marking |
|-------------|-----------------|------------------------------|-----------------|--------------------------------------|-------------------|----------------|------------------------|---------|
| ISM 2.4GHz | DFC32R44P084BHD | 2442.0 | $f_o \pm 42.0$ | 2.0 (0 ~ +85°C) 2.4 (-30 ~ +85°C) | 1.0 | 2.0 | 6 ($f_o \pm 80$) | 2442 CB |
| M-SAT | DFC31R54P034BHA | 1542.0 | $f_o \pm 17$ | 3.0 | 0.9 | 2.0 | 30 (1626.5 ~ 1660.5) | 1643 CC |
| | DFC31R64P034BHA | 1643.5 | | | 0.7 | | 30 (1525 ~ 1559) | |

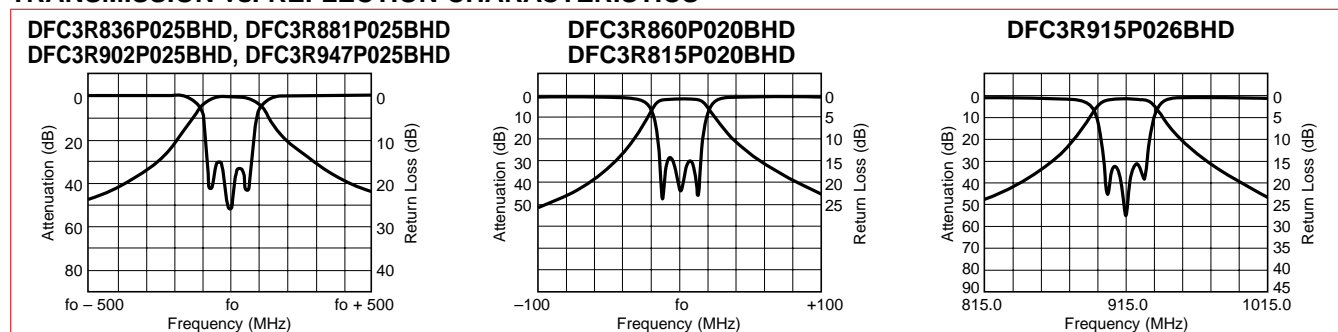
3-POLE – E-AMPS/GSM/SMR/ISM915



DIMENSIONS: mm



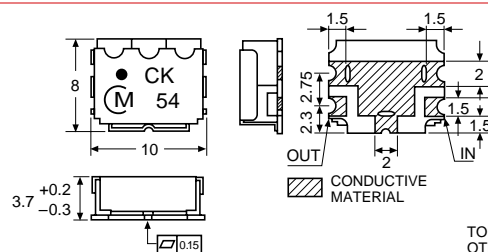
TRANSMISSION vs. REFLECTION CHARACTERISTICS



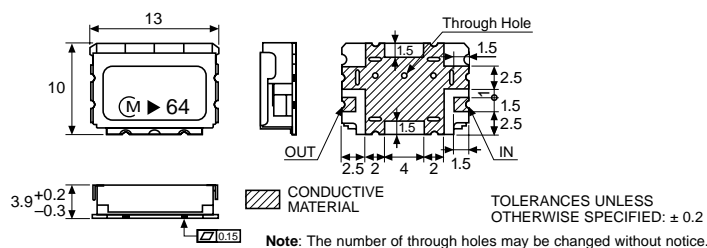
SPECIFICATIONS

| Application | Part Number | Center Frequency f_o (MHz) | Bandwidth (MHz) | Insertion Loss in BW (dB) | Ripple in BW (dB) | V.S.W.R. in BW | Attenuation (dB) (MHz) | Marking |
|-------------|-----------------|------------------------------|-----------------|---------------------------|-------------------|----------------|------------------------|---------|
| E-AMPS | DFC3R836P025BHD | 836.5 | $f_o \pm 12.5$ | 2.6 | 1.0 | 2.0 | 12 ($f_o \pm 32.5$) | 836 CC |
| | DFC3R881P025BHD | 881.5 | $f_o \pm 12.5$ | 2.6 | 1.0 | 2.0 | 12 ($f_o \pm 32.5$) | 881 CA |
| GSM | DFC3R902P025BHD | 902.5 | $f_o \pm 12.5$ | 2.6 | 1.0 | 2.0 | 12 ($f_o \pm 32.5$) | 902 CC |
| | DFC3R947P025BHD | 947.5 | $f_o \pm 12.5$ | 2.6 | 1.0 | 2.0 | 12 ($f_o \pm 32.5$) | 947 CD |
| ISM915 | DFC3R915P026BHD | 915.0 | $f_o \pm 13$ | 3.0 | 1.0 | 2.0 | 12 ($f_o \pm 32.5$) | 915 CD |
| SMR | DFC3R815P020BHD | 815 | $f_o \pm 10$ | 2.8 | 0.8 | 2.0 | 36 (860 \pm 10) | 815 CB |
| | DFC3R860P020BHD | 860 | $f_o \pm 10$ | 2.8 | 0.8 | 2.0 | 36 (815 \pm 10) | 860 CC |

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Innovator in Electronics



| Application | Part Number | Center Frequency fo (MHz) | Bandwidth (MHz) | Insertion Loss in BW (dB) | Ripple in BW (dB) | V.S.W.R. in BW | Attenuation (dB) (MHz) | Marking |
|-------------|-----------------|------------------------------|--------------------|------------------------------|----------------------|-------------------|---------------------------|---------|
| DCS | DFC31R74P075BHD | 1747.5 | fo ± 37.5 | 2.0 | 1.0 | 2.0 | 8 (fo ± 80) | CH |
| | | | | | | | 25 (fo ± 160) | |
| | DFC31R84P075BHD | 1842.5 | fo ± 37.5 | 2.0 | 0.8 | 2.0 | 8 (fo ± 80) | CG |
| | | | | | | | 25 (fo ± 160) | |
| PCS | DFC31R88P060BHD | 1880 | fo ± 30 | 2.2 | 0.8 | 1.8 | 15 (fo ± 100) | CK |
| | DFC31R96P060BHD | 1960 | fo ± 30 | 2.2 | 0.8 | 1.8 | 48 (fo ± 400) | CL |



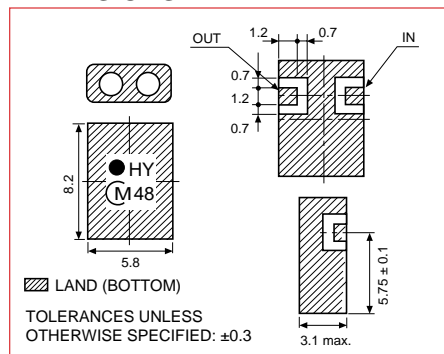
Note: The number of through holes may be changed without notice

| Application | Part Number | Center Frequency fo (MHz) | Bandwidth (MHz) | Insertion Loss in BW (dB) | Ripple in BW (dB) | V.S.W.R. in BW | Attenuation (dB) (MHz) | Marking |
|-------------|-----------------|------------------------------|--------------------|------------------------------|----------------------|-------------------|---------------------------|---------|
| PCS | DFC41R88P060BHX | 1880 | fo ± 30 | 4.5 | 1.4 | 2.0 | 12 (fo ± 50) | 1880 DA |
| | | | | | | | 30 (fo ± 100) | |
| | | | | | | | 50 (fo ± 200) | |
| PCS | DFC41R96P060BHX | 1960 | fo ± 30 | 4.5 | 1.4 | 2.0 | 12 (fo ± 50) | 1960 DG |
| | | | | | | | 30 (fo ± 100) | |
| | | | | | | | 50 (fo ± 200) | |

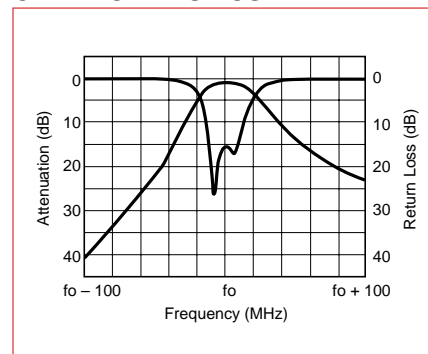
2-POLE—LOW COST



DIMENSIONS: mm



TRANSMISSION vs. REFLECTION CHARACTERISTICS



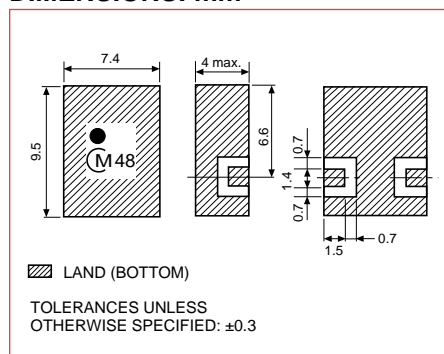
SPECIFICATIONS E-AMPS/ISM/GSM

| Application | Part Number | Center Frequency f_o (MHz) | Bandwidth (MHz) | Insertion Loss in BW (dB) | Ripple in BW (dB) | V.S.W.R. in BW | Attenuation (dB) (MHz) | Marking |
|-------------|-----------------|---------------------------------|--------------------|------------------------------|----------------------|-------------------|---------------------------|---------|
| E-AMPS | DFC2R836P025HHD | 836.5 | $f_o \pm 12.5$ | 2.6 | 1.2 | 2.3 | 6.5 (869 ~ 894) | HY |
| E-AMPS | DFC2R881P025HHD | 881.5 | $f_o \pm 12.5$ | 2.6 | 1.2 | 2.3 | 9 (824 ~ 849) | HZ |
| ISM915 | DFC2R915P026HHE | 915.0 | $f_o \pm 13$ | 2.6 | 1.0 | 2.0 | 17 (992.5) | JV |
| GSM | DFC2R902P025HHB | 902.5 | $f_o \pm 12.5$ | 2.6 | 1.2 | 2.3 | 6.5 (935 ~ 960) | JW |
| GSM | DFC2R947P025HHB | 947.5 | $f_o \pm 12.5$ | 2.6 | 1.2 | 2.3 | 9 (890 ~ 915) | JX |

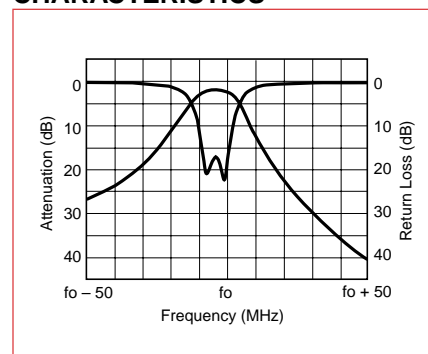
2-POLE — ISM 903/927



DIMENSIONS: mm



TRANSMISSION vs. REFLECTION CHARACTERISTICS



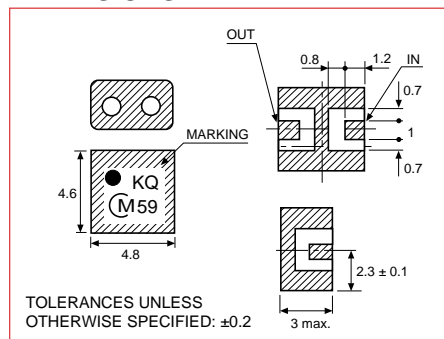
SPECIFICATIONS E-AMPS/ISM/GSM

| Application | Part Number | Center Frequency f_o (MHz) | Bandwidth (MHz) | Insertion Loss in BW (dB) | Ripple in BW (dB) | V.S.W.R. in BW | Attenuation (dB) (MHz) | Marking |
|-------------|-----------------|---------------------------------|--------------------|------------------------------|----------------------|-------------------|---------------------------|---------|
| ISM 903 | DFC2R903P002HHA | 903.0 | $f_o \pm 1$ | 3.0 | 0.5 | 2.0 | 20 ($f_o \pm 22$) | 903 BC |
| ISM 927 | DFC2R927P002HHA | 927.0 | $f_o \pm 1$ | 3.0 | 0.5 | 2.0 | 15 ($f_o \pm 22$) | 927 BC |

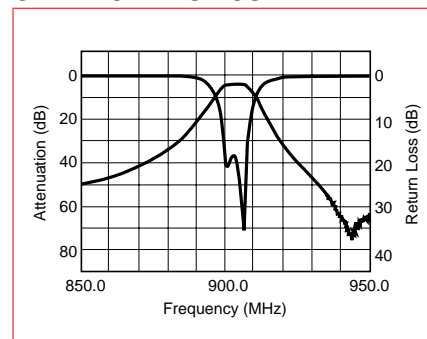
2-POLE–PCS/DCS 1800



DIMENSIONS: mm



TRANSMISSION vs. REFLECTION CHARACTERISTICS



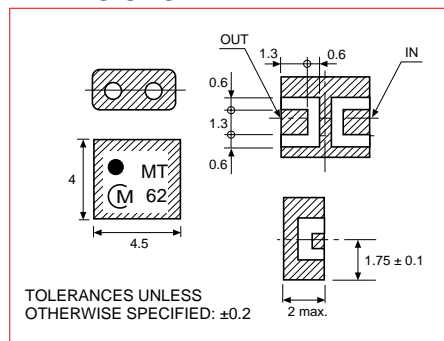
SPECIFICATIONS

| Application | Part Number | Center Frequency f_0 (MHz) | Bandwidth (MHz) | Insertion Loss in BW (dB) | Ripple in BW (dB) | V.S.W.R. in BW | Attenuation (dB) (MHz) | Marking |
|-------------|-----------------|------------------------------|-----------------|---------------------------|-------------------|----------------|------------------------|---------|
| PCS 1800 | DFC21R88P060HHA | 1880 | $f_0 \pm 30$ | 2.6 | 1.2 | 2.3 | 17 ($f_0 + 100$) | KW |
| | DFC21R96P060HHA | 1960 | $f_0 \pm 30$ | 2.6 | 1.2 | 2.3 | 40 ($f_0 - 400$) | KX |
| DCS 1800 | DFC21R74P075HHA | 1745 | $f_0 \pm 37.5$ | 2.0 | 1.0 | 2.0 | 10 (1907.5) | KN |
| | DFC21R84P075HHA | 1845 | $f_0 \pm 37.5$ | 2.0 | 1.0 | 2.0 | 20 (1682.5) | KQ |

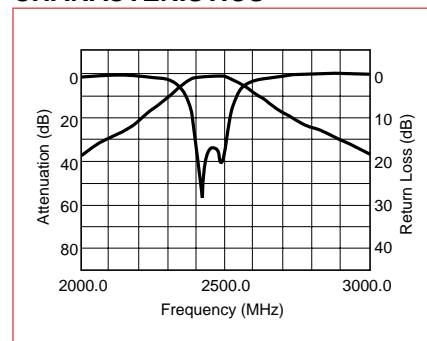
2-POLE–ISM 2.4GHz



DIMENSIONS: mm



TRANSMISSION vs. REFLECTION CHARACTERISTICS



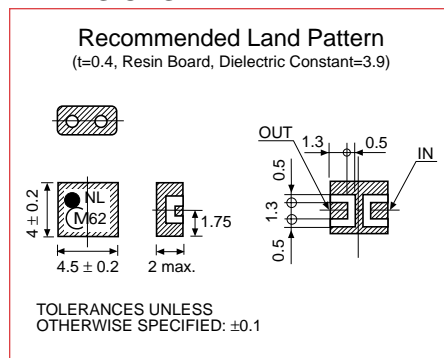
SPECIFICATIONS

| Application | Part Number | Center Frequency f_0 (MHz) | Bandwidth (MHz) | Insertion Loss in BW (dB) | Ripple in BW (dB) | V.S.W.R. in BW | Attenuation (dB) (MHz) | Marking |
|-------------|-----------------|------------------------------|-----------------|---------------------------|-------------------|----------------|--|---------|
| ISM 2.4GHz | DFC22R44P084LHA | 2442 | $f_0 \pm 42$ | 2.0 | 1.0 | 2.0 | 14 ($f_0 + 250$) 19 ($f_0 - 250$) | MT |

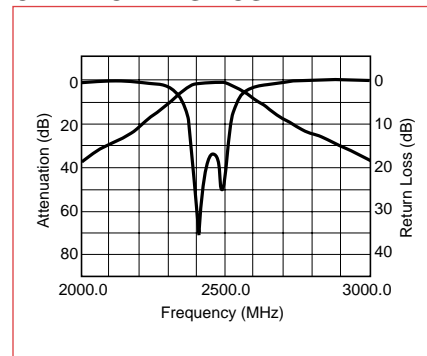
2-POLE–ISM 2.4GHz



DIMENSIONS: mm



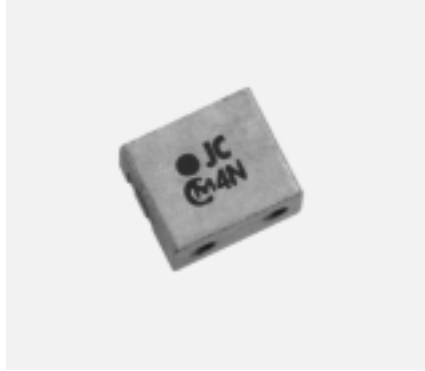
TRANSMISSION vs. REFLECTION CHARACTERISTICS



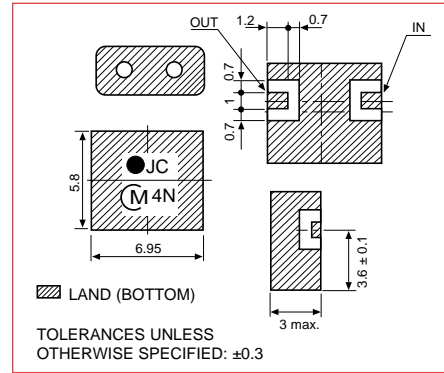
SPECIFICATIONS

| Application | Part Number | Center Frequency f_0 (MHz) | Bandwidth (MHz) | Insertion Loss in BW (dB) | Ripple in BW (dB) | V.S.W.R. in BW | Attenuation (dB) (MHz) | Marking |
|-------------|-----------------|------------------------------|-----------------|---------------------------|-------------------|----------------|--|---------|
| ISM 2.4GHz | DFC22R45P100LHA | 2450 | $f_0 \pm 50$ | 2.0 | 0.7 | 2.0 | 12 ($f_0 + 250$) 15 ($f_0 - 250$) | NL |

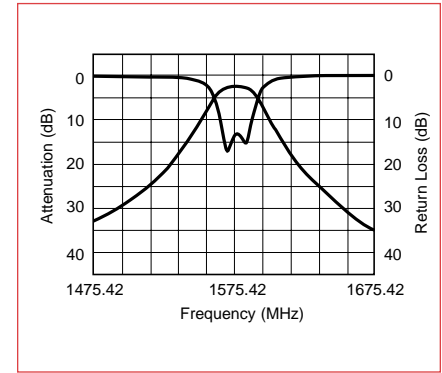
2-POLE – GPS



DIMENSIONS: mm



TRANSMISSION vs. REFLECTION CHARACTERISTICS



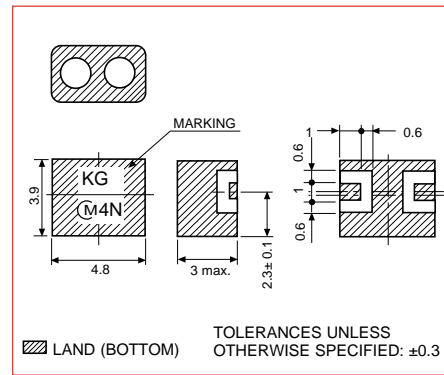
SPECIFICATIONS

| Application | Part Number | Center Frequency f_0 (MHz) | Bandwidth (MHz) | Insertion Loss in BW (dB) | Ripple in BW (dB) | V.S.W.R. in BW | Attenuation (dB) (MHz) | Marking |
|-------------|-----------------|---------------------------------|--------------------|-------------------------------------|----------------------|-------------------|---------------------------|---------|
| GPS | DFC21R57P002HHA | 1575.42 | $f_0 \pm 1$ | 2.9 (0 ~ 35°C) 3.15 (-35 ~ 85°C) | 0.5 | 2.0 | 18 ($f_0 \pm 50$) | JC |

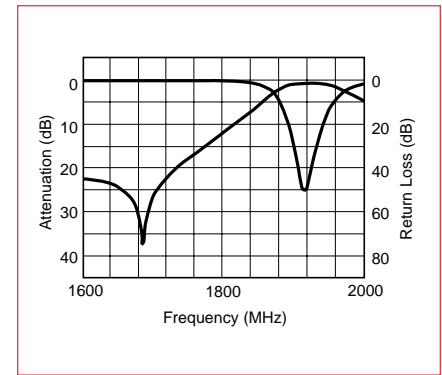
2-POLE – PCS U NLICENSED



DIMENSIONS: mm



TRANSMISSION vs. REFLECTION CHARACTERISTICS



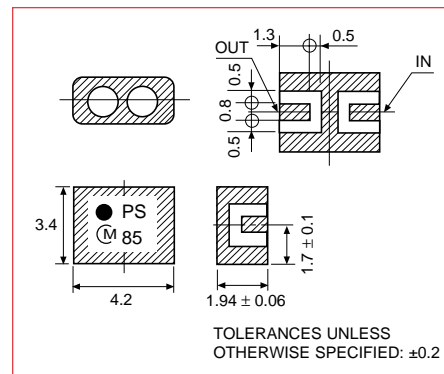
SPECIFICATIONS

| Application | Part Number | Center Frequency f_0 (MHz) | Bandwidth (MHz) | Insertion Loss in BW (dB) | Ripple in BW (dB) | V.S.W.R. in BW | Attenuation (dB) (MHz) | Marking |
|-------------|-----------------|---------------------------------|--------------------|------------------------------|----------------------|-------------------|---------------------------|---------|
| PCS | DFC21R92P020HHD | 1920 | $f_0 \pm 10$ | 1.9 | 0.5 | 2.0 | 37 (1690 – 1710) | KG |

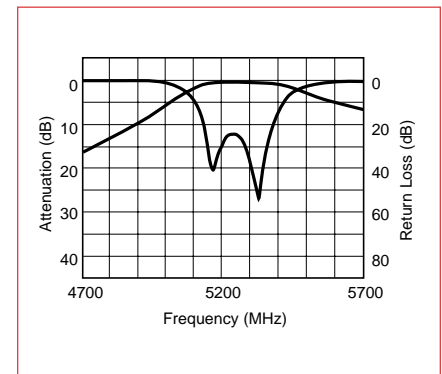
2-POLE – ISM 5.8GHZ



DIMENSIONS: mm



TRANSMISSION vs. REFLECTION CHARACTERISTICS



SPECIFICATIONS

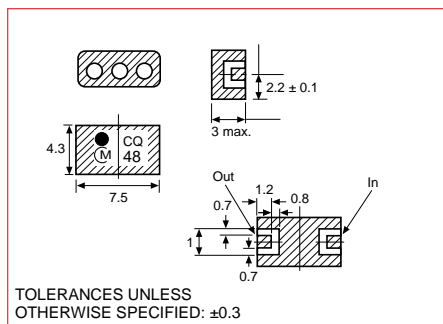
| Application | Part Number | Center Frequency f_0 (MHz) | Bandwidth (MHz) | Insertion Loss in BW (dB) | Ripple in BW (dB) | V.S.W.R. in BW | Attenuation (dB) (MHz) | Marking |
|---------------|-----------------|---------------------------------|--------------------|------------------------------|----------------------|-------------------|---------------------------|---------|
| ISM 5.8GHZ | DFC25R25P200LHA | 5250 | $f_0 \pm 100$ | 2.0 | 1.0 | 2.0 | 15 $f_0 \pm 375$ | PS |
| | DFC25R80P150LHA | 5800 | $f_0 \pm 75$ | 2.0 | 1.0 | 2.0 | 5 $f_0 \pm 375$ | PR |

CERAMIC MICROWAVE FILTERS BAND PASS FILTERS–MB TYPE

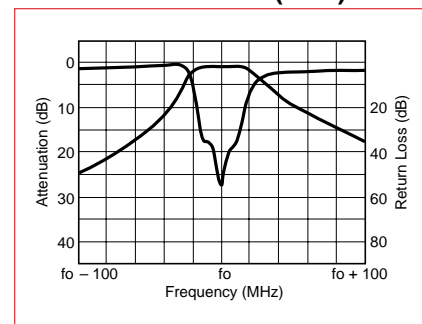
3-POLE–PCS/DCS 1800



DIMENSIONS: mm



TRANSMISSION vs. REFLECTION CHARACTERISTICS (PCS)



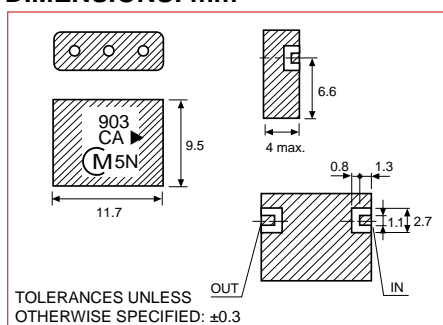
SPECIFICATIONS

| Application | Part Number | Center Frequency f_o (MHz) | Bandwidth (MHz) | Insertion Loss in BW (dB) | Ripple in BW (dB) | V.S.W.R. in BW | Attenuation (dB) (MHz) | Marking |
|-------------|-----------------|---------------------------------|--------------------|------------------------------|----------------------|-------------------|---------------------------|---------|
| PCS1900 | DFC31R88P060HHA | 1880.0 | $f_o \pm 30$ | 2.4 | 1.0 | 2.0 | 10 ($f_o + 100$) | CS |
| PCS1900 | DFC31R96P060HHA | 1960.0 | $f_o \pm 30$ | 2.4 | 1.0 | 2.0 | 18 ($f_o - 100$) | CT |
| DCS1800 | DFC31R74P075HHA | 1747.5 | $f_o \pm 37.5$ | 2.8 | 1.6 | 2.0 | 7 ($f_o + 80$) | CQ |
| DCS1800 | DFC31R84P075HHA | 1842.5 | $f_o \pm 37.5$ | 2.8 | 1.6 | 2.0 | 13 ($f_o - 80$) | CR |

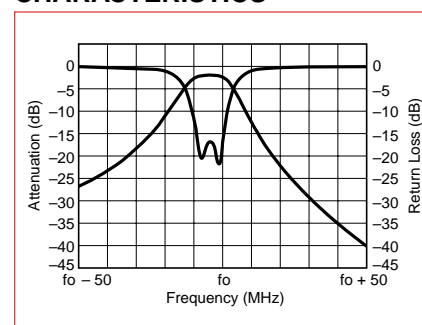
3-POLE–ISM 903/927



DIMENSIONS: mm



TRANSMISSION vs. REFLECTION CHARACTERISTICS



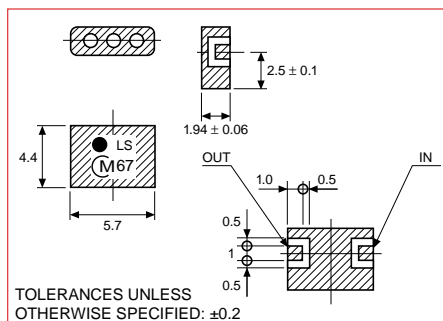
SPECIFICATIONS

| Application | Part Number | Center Frequency f_o (MHz) | Bandwidth (MHz) | Insertion Loss in BW (dB) | Ripple in BW (dB) | V.S.W.R. in BW | Attenuation (dB) (MHz) | Marking |
|-------------|-----------------|---------------------------------|--------------------|------------------------------|----------------------|-------------------|---------------------------|---------|
| ISM903 | DFC3R903P002HHA | 903 | $f_o \pm 1.0$ | 5.3 | 0.5 | 2.0 | 35 (925) | 903 CA |
| ISM927 | DFC3R927P002HHA | 927 | $f_o \pm 1.0$ | 5.3 | 0.5 | 2.0 | 29 (905) | 927 CA |

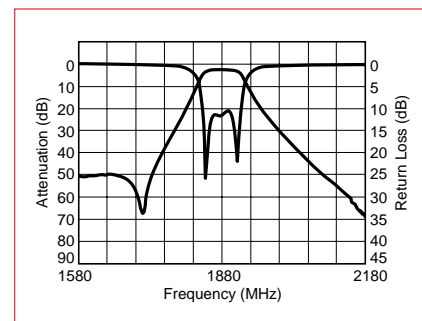
3-POLE–PCS 1800



DIMENSIONS: mm



TRANSMISSION vs. REFLECTION CHARACTERISTICS



SPECIFICATIONS

| Application | Part Number | Center Frequency f_o (MHz) | Bandwidth (MHz) | Insertion Loss in BW (dB) | Ripple in BW (dB) | V.S.W.R. in BW | Attenuation (dB) (MHz) | Marking |
|-------------|-----------------|---------------------------------|--------------------|------------------------------|----------------------|-------------------|---------------------------|---------|
| PCS1900 | DFC31R88P060LHA | 1880.0 | $f_o \pm 30$ | 3.7 | 2.0 | 3.0 | 43 (1640 ~ 1664) | LS |
| | | | | | | | 25 (1770) | |
| | | | | | | | 5 (1830) | |
| | | | | | | | 5 (1930) | |
| | | | | | | | 22 (1990) | |
| | | | | | | | 43 (2096 ~ 2156) | |

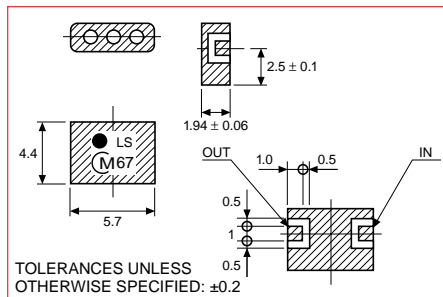
CERAMIC MICROWAVE FILTERS BAND PASS FILTERS – MB TYPE

DFC Series

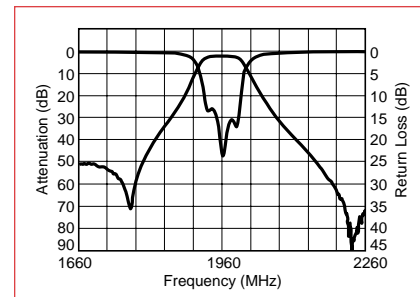
3-POLE – PCS



DIMENSIONS: mm



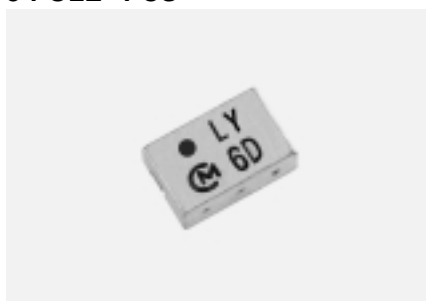
TRANSMISSION vs. REFLECTION CHARACTERISTICS



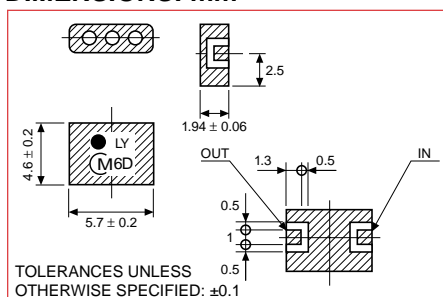
SPECIFICATIONS

| Application | Part Number | Center Frequency fo (MHz) | Bandwidth (MHz) | Insertion Loss in BW (dB) | Ripple in BW (dB) | V.S.W.R. in BW | Attenuation (dB) (MHz) | Marking |
|-------------|-----------------|------------------------------|--------------------|------------------------------|----------------------|-------------------|---------------------------|---------|
| PCS1900 | DFC31R96P060LHA | 1960 | fo ± 30 | 3.7 | 2.0 | 3.0 | 43 (1684 ~ 1744) | LT |
| | | | | | | | 25 (1850) | |
| | | | | | | | 5 (1910) | |
| | | | | | | | 5 (2010) | |
| | | | | | | | 22 (2070) | |
| | | | | | | | 43 (2176 ~ 2263) | |

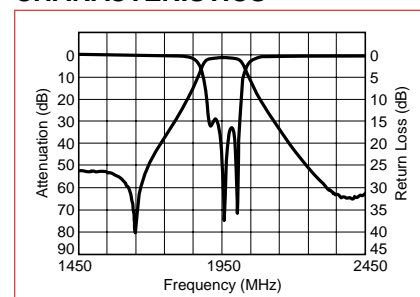
3-POLE – PCS



DIMENSIONS: mm



TRANSMISSION vs. REFLECTION CHARACTERISTICS



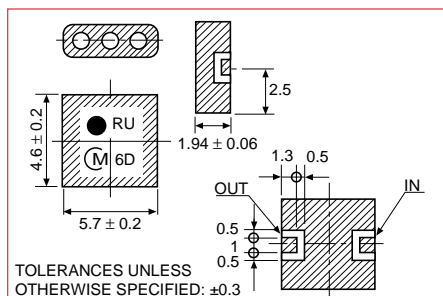
SPECIFICATIONS

| Application | Part Number | Center Frequency fo (MHz) | Bandwidth (MHz) | Insertion Loss in BW (dB) | Ripple in BW (dB) | V.S.W.R. in BW | Attenuation (dB) (MHz) | Marking |
|-------------|-----------------|------------------------------|--------------------|------------------------------|----------------------|-------------------|---------------------------|---------|
| PCS1900 | DFC31R96P060LHB | 1960 | fo ± 30 | 3.0 | 1.0 | 2.0 | 45 (1684 ~ 1744) | LY |
| | | | | | | | 10 (1498 ~ 1860) | |
| | | | | | | | 10 (2060 ~ 2360) | |
| | | | | | | | 25 (2360 ~ 3000) | |

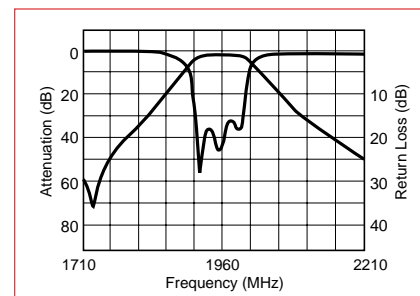
3-POLE – PCS



DIMENSIONS: mm



TRANSMISSION vs. REFLECTION CHARACTERISTICS



SPECIFICATIONS

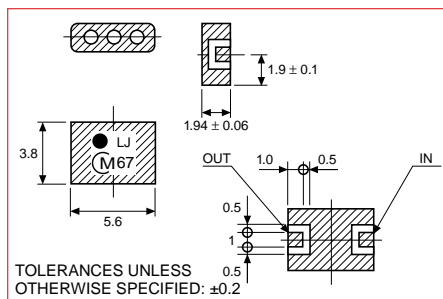
| Application | Part Number | Center Frequency fo (MHz) | Bandwidth (MHz) | Insertion Loss in BW (dB) | Ripple in BW (dB) | V.S.W.R. in BW | Attenuation (dB) (MHz) | Marking |
|-------------|-----------------|------------------------------|--------------------|------------------------------|----------------------|-------------------|---------------------------|---------|
| PCS1900 | DFC31R96P060LHC | 1960 | fo ± 30 | 2.8 | 1.0 | 2.0 | 10 (1860) | RU |
| | | | | | | | 17 (2060) | |

CERAMIC MICROWAVE FILTERS BAND PASS FILTERS–MB TYPE

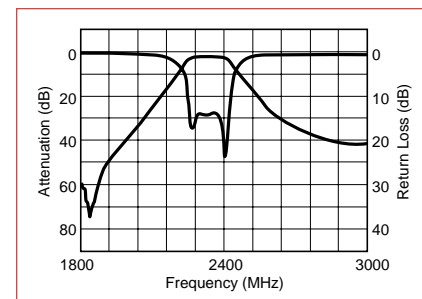
3-POLE–ISM 2.4GHz



DIMENSIONS: mm



TRANSMISSION vs. REFLECTION CHARACTERISTICS



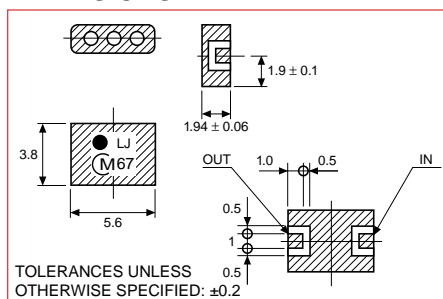
SPECIFICATIONS

| Application | Part Number | Center Frequency f_o (MHz) | Bandwidth (MHz) | Insertion Loss in BW (dB) | Ripple in BW (dB) | V.S.W.R. in BW | Attenuation (dB) (MHz) | Marking |
|-------------|-----------------|---------------------------------|--------------------|------------------------------|----------------------|-------------------|--|---------|
| ISM 2.4 | DFC32R48P084LHA | 2448 | $f_o \pm 42$ | 3.2 | 1.5 | 2.0 | 30 ($F_o - 250$) 28 ($F_o + 250$) | LJ |

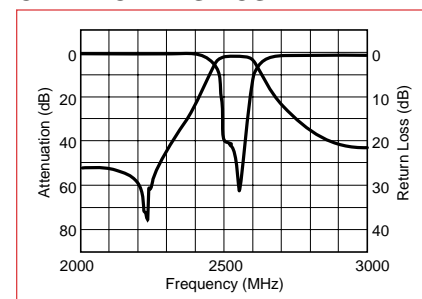
3-POLE–ISM 2.4GHz



DIMENSIONS: mm



TRANSMISSION vs. REFLECTION CHARACTERISTICS



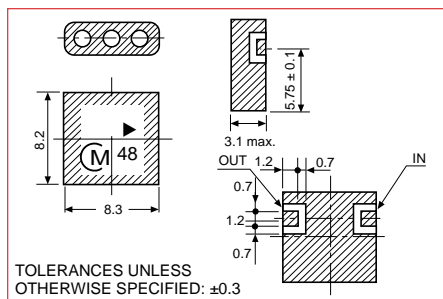
SPECIFICATIONS

| Application | Part Number | Center Frequency f_o (MHz) | Bandwidth (MHz) | Insertion Loss in BW (dB) | Ripple in BW (dB) | V.S.W.R. in BW | Attenuation (dB) (MHz) | Marking |
|-------------|-----------------|---------------------------------|--------------------|------------------------------|----------------------|-------------------|--|---------|
| ISM 2.4 | DFC32R45P100LHA | 2450 | $f_o \pm 50$ | 3.2 | 1.5 | 2.0 | 30 ($F_o - 250$) 28 ($F_o + 250$) | LK |

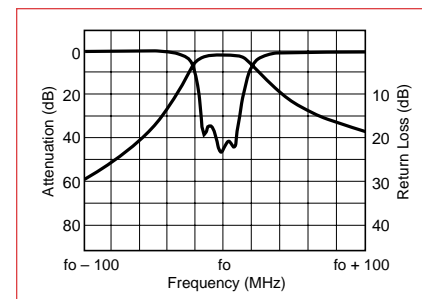
3-POLE–E-AMPS/GSM/ISM 915



DIMENSIONS: mm



TRANSMISSION vs. REFLECTION CHARACTERISTICS

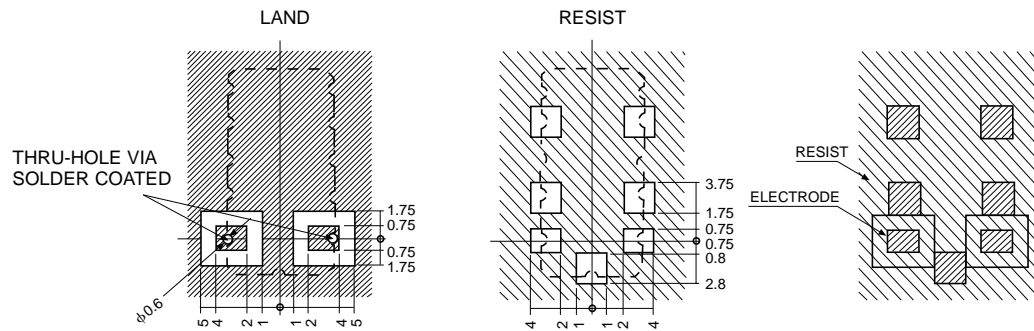


SPECIFICATIONS

| Application | Part Number | Center Frequency f_o (MHz) | Bandwidth (MHz) | Insertion Loss in BW (dB) | Ripple in BW (dB) | V.S.W.R. in BW | Attenuation (dB) (MHz) | Marking |
|-------------|-----------------|---------------------------------|--------------------|------------------------------|----------------------|-------------------|---------------------------|---------|
| Cellular | DFC3R836P025HHD | 836.5 | $f_o \pm 12.5$ | 3.0 | 1.0 | 2.0 | 12 (864 ~ 894) | 836 CD |
| Cellular | DFC3R881P025HHD | 881.5 | $f_o \pm 12.5$ | 3.0 | 1.0 | 2.0 | 15 (824 ~ 849) | 881 CC |
| ISM 915 | DFC3R915P026HHC | 915.0 | $f_o \pm 13$ | 3.0 | 1.0 | 2.0 | 12 (+32.5) 15 (-32.5) | 915 CF |
| GSM | DFC3R902P025HHD | 902.5 | $f_o \pm 12.5$ | 2.6 | 1.0 | 2.0 | 12 (935 ~ 960) | 902 CD |
| GSM | DFC3R947P025HHD | 947.5 | $f_o \pm 12.5$ | 3.0 | 1.0 | 2.0 | .15 (890 ~ 915) | 947 CE |

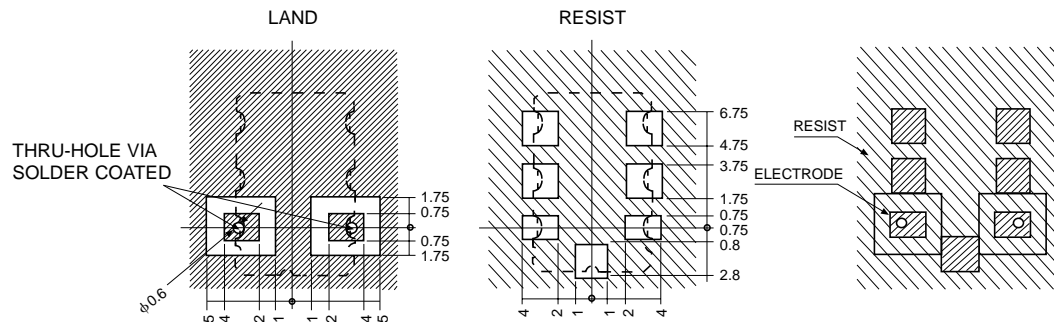
DP TYPE/GPS-2-POLE

DFC21R57P002BHA
DFC2R915P026BHD



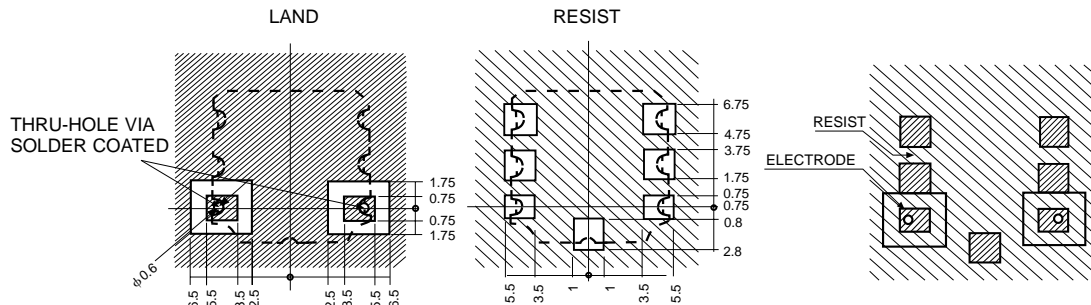
DP TYPE/ISM 2.4GHM-2-POLE

DFC22R44P084BHD
DFC21R57P002BHD



DP TYPE/ISM 2.4GHM-3-POLE

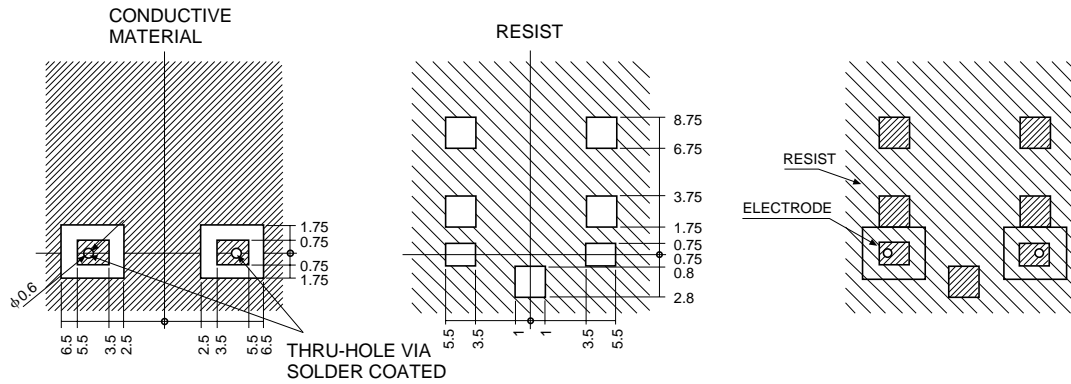
DFC32R44P084BHD
DFC31R54P034BHA
DFC31R64P034BHA



DP TYPE /E-AMPS/GSM/EGSM/E-TACS–3-POLE

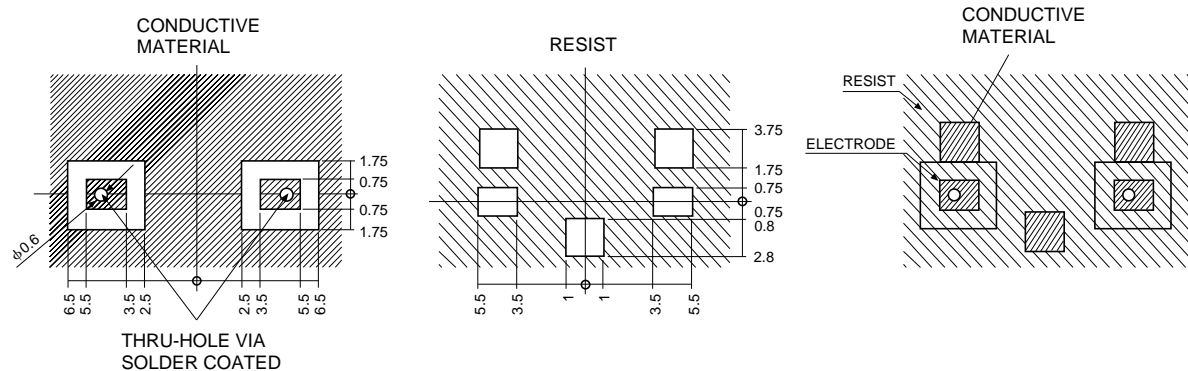
DFC3R836P025BHD
DFC3R881P025BHD
DFC3R902P025BHD
DFC3R947P025BHD
DFC3R888P033BHD
DFC3R933P033BHD

DFC3R915P026BHD
DFC3R815P020BHD
DFC3R860P020BHD



DP TYPE /PCS/DCS 1800–3-POLE

DFC31R74P075BHD
DFC31R84P075BHD
DFC31R88P060BHD
DFC31R96P060BHD



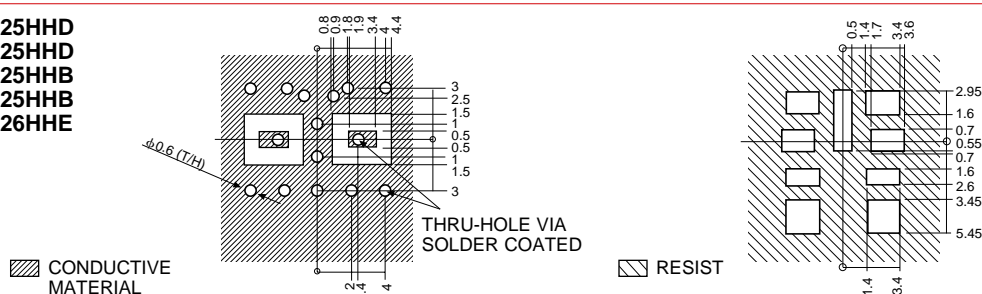
ALSO AVAILABLE:

| Application | Part Number 2-Pole | Marking | Application | Part Number 3-Pole | Marking | Application | Part Number 4-Pole | Marking |
|-------------|-----------------------|---------|-------------|-----------------------|---------|-------------|-----------------------|---------|
| GSM | DFC2R902E025BHD | BP | EGSM | DFC3R897P035BHD | 897 CB | EGSM | DFC4R897P035BHD | 897 DA |
| | | | | DFC3R942P035BHD | 942 CA | | DFC4R942P035BHD | 942 DA |
| | | | GSM | DFC4R902P025BHA | 902 DA | DCS 1800 | DFC41R74P075BHX | 1747 DC |
| | | | | DFC4R947P025BHA | 947 DA | | DFC41R84P075BHX | 1842 DG |
| | | | MDS | DFC32R15P020BHD | 2156 CA | MMDS | DFC42R59P186BHD | 2593 DB |

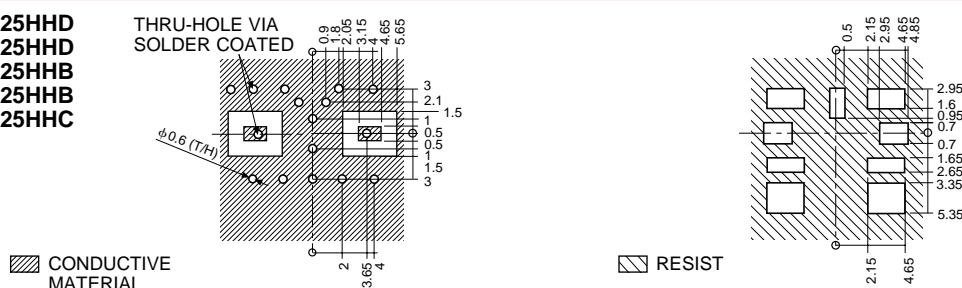
DFC Series

MB TYPE/E-AMPS/GSM/ISM 915-2-POLE

DFC2R836P025HHD
DFC2R881P025HHD
DFC2R902P025HHD
DFC2R947P025HHD
DFC2R915P026HHE

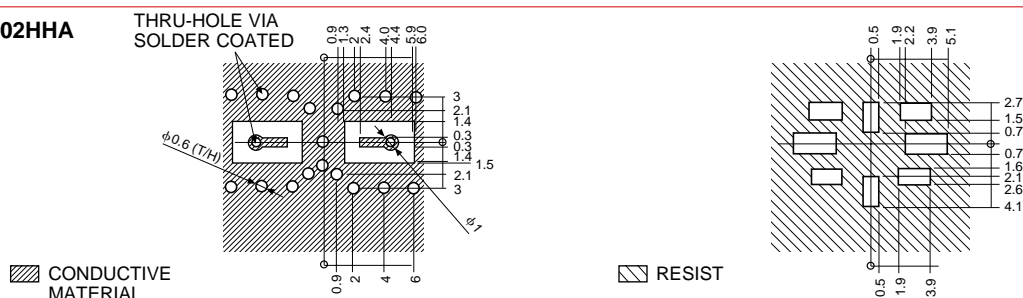
**MB TYPE/E-AMPS/GSM/ISM 915-3-POLE**

DFC3R836P025HHD
DFC3R881P025HHD
DFC3R902P025HHB
DFC3R947P025HHB
DFC3R915P025HHC

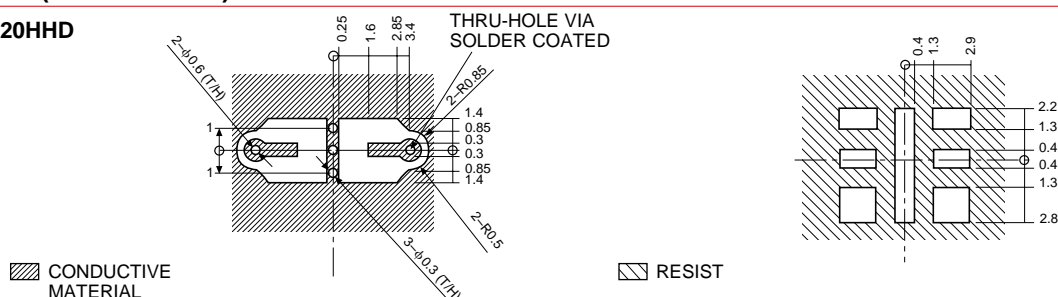


MB TYPE/GPS-2-POLE

DFC21R57P002HHA

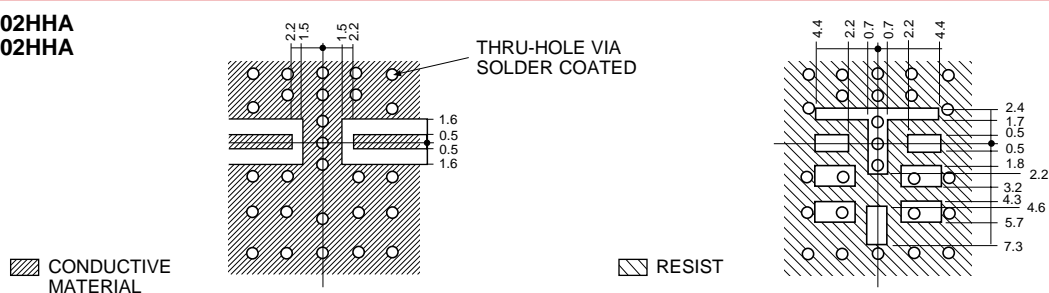
**MB TYPE/PCS (UNLICENSED)–2-POLE**

DFC21R92P020HHD



MB TYPE/ISM/903/927-2-POLE

DFC2R903P002HHA
DFC2R927P002HHA

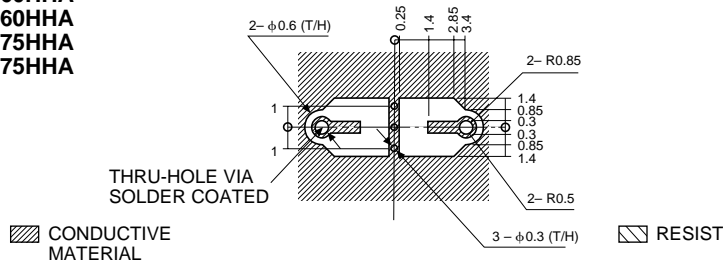


CERAMIC MICROWAVE FILTERS

STANDARD LAND PATTERNS—BAND PASS FILTERS

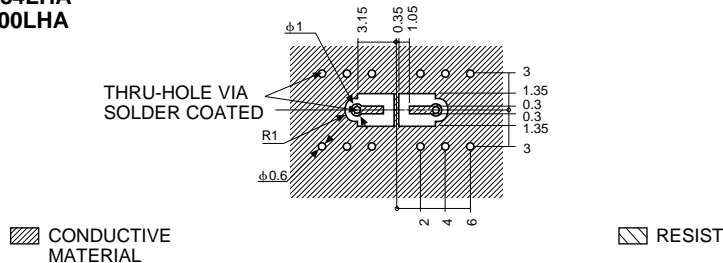
MB TYPE/PCS/DCS 1800—2-POLE

DFC21R88P060HHA
DFC21R96P060HHA
DFC21R74P075HHA
DFC21R84P075HHA



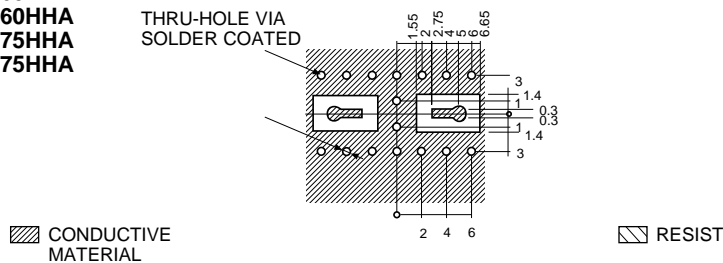
MB TYPE/2.4 ISM—2-POLE

DFC22R44P084LHA
DFC22R458100LHA



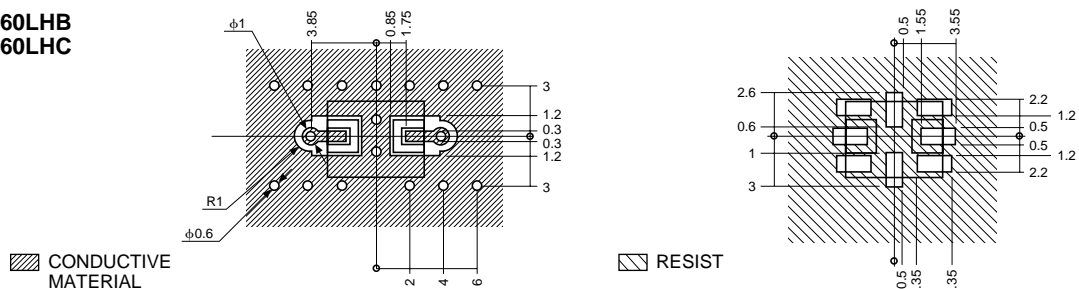
MB TYPE/PCS/DCS 1800—3-POLE

DFC31R88P060HHA
DFC31R96P060HHA
DFC31R74P075HHA
DFC31R84P075HHA



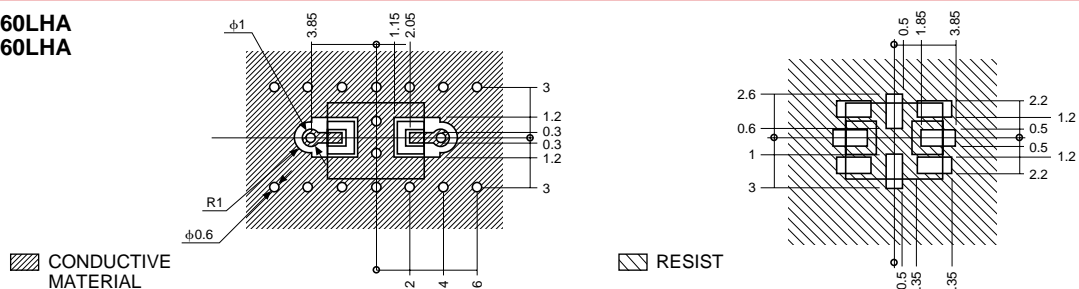
MB TYPE/PCS—3-POLE

DFC31R96P060LHB
DFC31R96P060LHC



MB TYPE/PCS—3-POLE

DFC31R88P060LHA
DFC31R96P060LHA

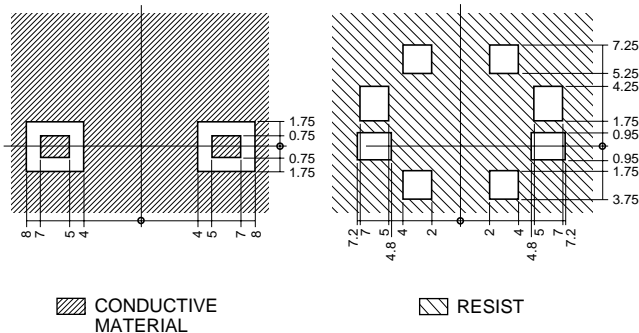


CERAMIC MICROWAVE FILTERS

STANDARD LAND PATTERNS—BAND PASS FILTERS

DP TYPE/PCS-4-POLE

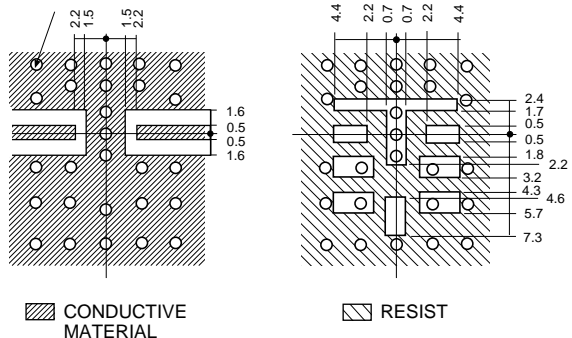
DFC41R88P060BHX
DFC41R96P060BHX



MB TYPE/ISM-2-POLE

DFC2R903P002HHA
DFC2R927P002HHA

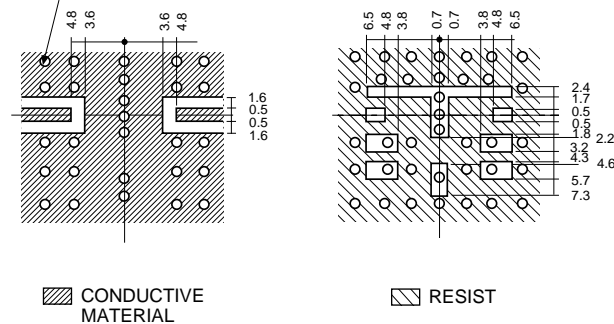
THRU-HOLE VIA
SOLDER COATED



MB TYPE/ISM 903/927-3-POLE

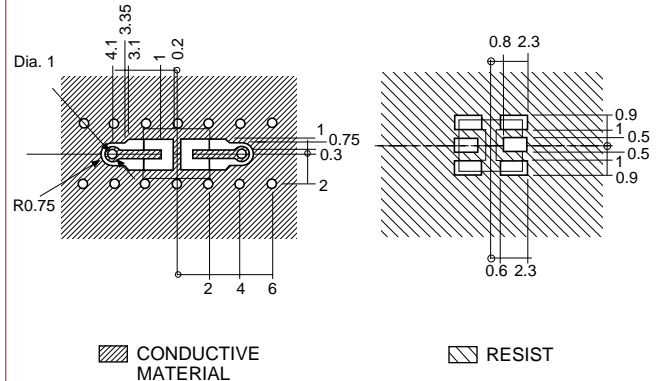
DFC3R903P002HHA
DFC3R927P002HHA

THRU-HOLE VIA
SOLDER COATED



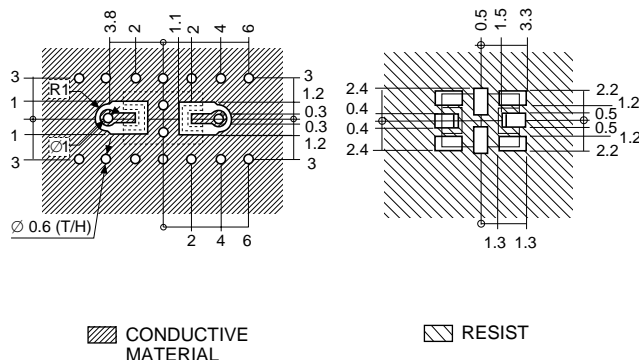
MB TYPE/ISM 5.8GHZ-3-POLE

DFC25R25P200LHA
DFC25R80P150LHA



MB TYPE/ISM 2.4GHZ-3-POLE

DFC32R48P084LHA
DFC32R45P100LHA



ALSO AVAILABLE:

| Application | Part Number | Marking |
|----------------|------------------|---------|
| | 2-Pole | |
| CT1 | DFC2R914P001HHA | 914 BB |
| | DFC2R959P001HHA | 959 BB |
| | DFC2R886P002HHA | 886 BB |
| | DFC2R931P002HHA | 931 BB |
| PDC | DFC2R820P020HHA | JY |
| | DFC21R48P024LHA | PF |
| DECT | DFC21R89P020HHA | JR |
| CT2 | DFC2RC866P004HHA | 866 BB |
| | DFC21R90P025LHA | MG |
| | DFC21R90P025LHB | NF |
| PHS | DFC21R90P025LHC | NP |
| Application | Part Number | Marking |
| | 3-Pole | |
| Cordless Phone | DFC3R914P001HHA | 914 CB |
| | DFC3R959P001HHA | 959 CB |
| | DFC3R886P002HHA | 886 CB |
| | DFC3R931P002HHA | 931 CB |
| CT2 | DFC3R866P004HHA | 866 CD |
| | DFC3R815P019HHA | 815 CC |
| | DFC3R860P019HHA | 860 CE |

Note: Impedance of both input and output lines should be 50ohms including land pattern. The standard condition is applying glass epoxy board (dielectric constant = 4.8, copper metalized on both surfaces) and the input and output lines are connected to 50ohms microstrip lines on the back side surface through the via hole.