



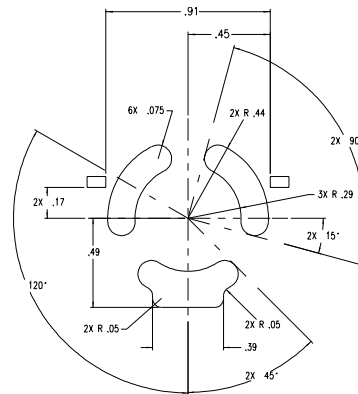
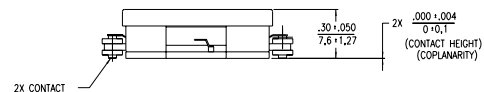
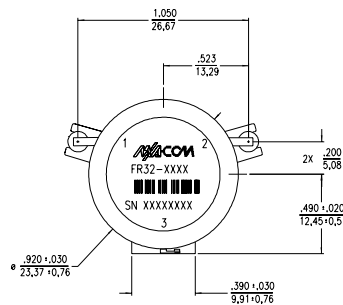
Surface Mount Isolator



Features

- 24 dB Isolation Typical, 0.25 dB Insertion Loss Typical
- Compatible with Pick-and-Place Manufacturing and Solder Reflow Profiles
- Custom Products Available with Alternate Configurations such as Couplers, Attenuators, Higher Power Terminations, Reverse Circulation and Termination on Ports 1 or 2
- Available as Custom Product Without Flange for Surface Mount Applications (Solder Reflow)
- Designed for Wireless Telecommunications Systems: AMPS, N-AMPS, D-AMPS, EGSM, GSM, DCS1800, PCS1900

FR32



RECOMMENDED SOLDER FOOTPRINT

- NOTES:
- 1) ISOLATOR IS PROCESSED W/SN96
 - 2) RECOMMENDED SOLDER FOR ATTACHMENT: SN62
 - 3) USE MULTIPLE PLATED THRU HOLES IN SOLDER AREA UNDER HOUSING.

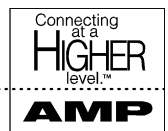
Description

M/A-COM's surface mount circulators and isolators, designed for cellular applications, feature high performance at low cost. These designs offer the best isolation per insertion loss ratio in the industry and are currently produced in the tens of thousands of pieces per year. These units can be ordered so as to be compatible with solder reflow manufacturing techniques. Both circulators and isolators are in stock at all authorized M/A-COM distributors.

| Part Number | Frequency Range (MHz) |
|-------------|-----------------------|
| FR32-0001 | 869 – 894 |
| FR32-0002 | 925 – 960 |
| FR32-0003 | 1805 – 1880 |
| FR32-0004 | 1930 – 1990 |
| FR32-0005 | 824 – 849 |
| FR32-0006 | 880 – 915 |
| FR32-0007 | 1710 – 1785 |
| FR32-0008 | 1850 – 1910 |

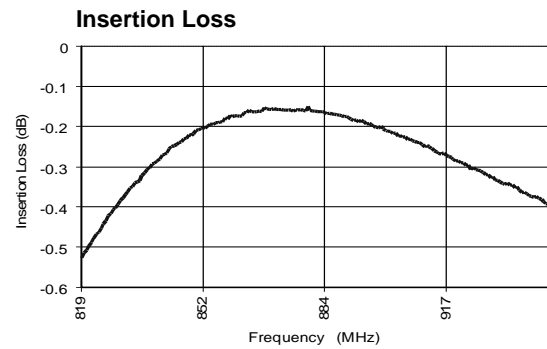
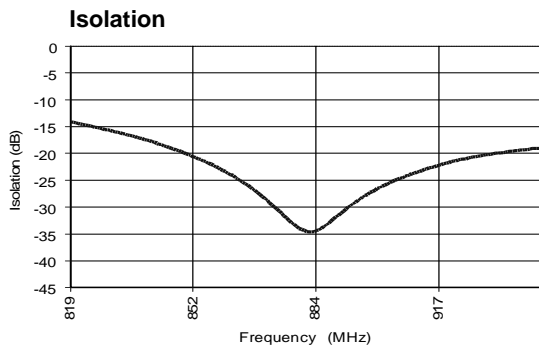
Electrical Specifications

| Parameter | Units | -10 to +60° C | | | -30 to +85° C | | |
|-----------------|-------|---------------|------|------|---------------|------|------|
| | | Min. | Typ. | Max. | Min. | Typ. | Max. |
| Isolation | dB | 22 | 24 | — | 20 | 22 | — |
| Insertion Loss | dB | — | 0.25 | 0.3 | — | 0.30 | 0.35 |
| Forward Power | Watts | — | — | 65 | — | — | 65 |
| Reflected Power | Watts | — | — | 10 | — | — | 10 |
| VSWR | — | — | — | 1.20 | — | — | 1.22 |

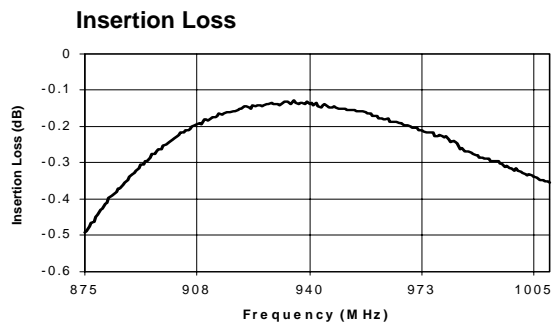
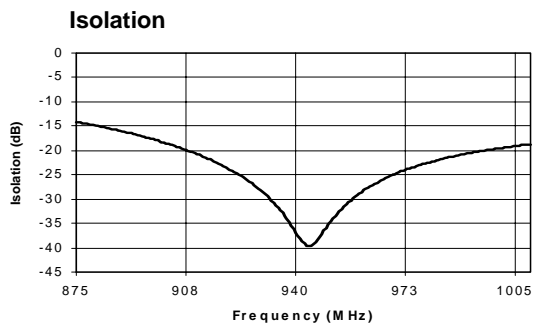


Typical Performance, T = +25°C

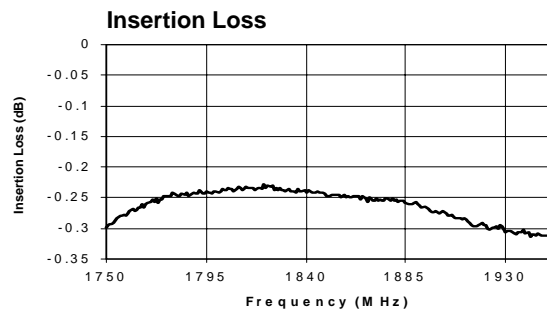
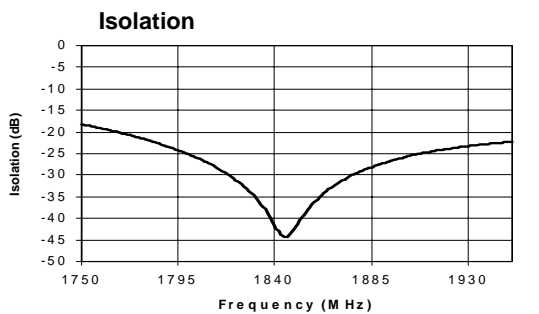
FR32-0001



FR32-0002



FR32-0003



FR32-0004

