

# VICHIP VTM

## DC/DC CURRENT MULTIPLIER MODULE

### FEATURES

- 300 WATTS
- 48 Vin V•I Chip Converter.
- >92% efficiency at 1.5V.
- Up to 100 A / 300 W.
- 125°C operation.
- High density - up to 365 A/in3 (1 095 W/cm3).
- 1  $\mu$ s transient response.
- Small footprint: 1.1in2 (7.1cm2).
- >3.5 million hours MTBF.
- Low weight - 0.5 oz (14 g).
- J-lead package.
- Pick & Place / SMD compatible



### SELECTION TABLE

| Part Number       | Vin (V)    | Vout (V)        | Output Current (A) | Package   |
|-------------------|------------|-----------------|--------------------|-----------|
| VTM48MP010x107AA1 | 48 (0-60)  | 1.0 (0-1.25)    | 107                | 1323      |
| VTM48EF012T130B01 | 48 (26-55) | 1.2 (0.7-1.4)   | 130                | Full Chip |
| VTM48RP015x050AB1 | 48 (0-52)  | 1.5 (0-1.63)    | 50                 | 623       |
| VTM48EH015x050A00 | 48 (26-55) | 1.5 (0.8-1.7)   | 50                 | Half Chip |
| VTM48EF015T115A00 | 48 (26-55) | 1.5 (0.8-1.7)   | 115                | Full Chip |
| VTM48KP020x088AA1 | 48 (0-55)  | 2.0 (0-2.3)     | 88                 | 1323      |
| VTM48EH020x040A00 | 48 (26-55) | 2.0 (1.1-2.3)   | 40                 | Half Chip |
| VTM48Ex020y080A00 | 48 (26-55) | 2.0 (1.1-2.3)   | 80                 | Full Chip |
| VTM48Ex030y070A00 | 48 (26-55) | 3.0 (1.6-3.4)   | 70                 | Full Chip |
| VTM48Ex040y050B0R | 48 (26-55) | 4.0 (2.2-4.6)   | 50                 | Full Chip |
| VTM48EH040x025B00 | 48 (26-55) | 4.0 (2.17-4.58) | 25                 | Half Chip |
| VTM48Ex040y050B00 | 48 (26-55) | 4.0 (2.17-4.58) | 50                 | Full Chip |
| VTM48EH060x020A00 | 48 (26-55) | 6.0 (3.25-6.87) | 20                 | Half Chip |
| VTM48Ex060y040A00 | 48 (26-55) | 6.0 (3.25-6.87) | 40                 | Full Chip |
| VTM48Ex080y030A00 | 48 (26-55) | 8.0 (4.34-9.16) | 30                 | Full Chip |
| VTM48Ex096y025A00 | 48 (26-55) | 9.6 (6.4-11.0)  | 25                 | Full Chip |
| VTM48EH120x010B00 | 48 (26-55) | 12 (6.5-13.8)   | 10                 | Half Chip |
| VTM48Ex120y025A0R | 48 (26-55) | 12 (6.5-13.8)   | 25                 | Full Chip |
| VTM48Ex120y025A00 | 48 (26-55) | 12 (6.5-13.8)   | 25                 | Full Chip |
| VTM48Ex160y015A00 | 48 (26-55) | 16 (8.67-18.3)  | 15                 | Full Chip |
| VTM48Ex240y012A00 | 48 (26-55) | 24 (13.8-26.5)  | 12                 | Full Chip |
| VTM48Ex320y009A00 | 48 (26-55) | 32 (17.3-36.7)  | 9                  | Full Chip |
| VTM48Ex480y006A00 | 48 (26-55) | 48 (26-55)      | 6                  | Full Chip |